

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P383641

Luminaire Tested: **GAN-SA9B-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46622.1 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

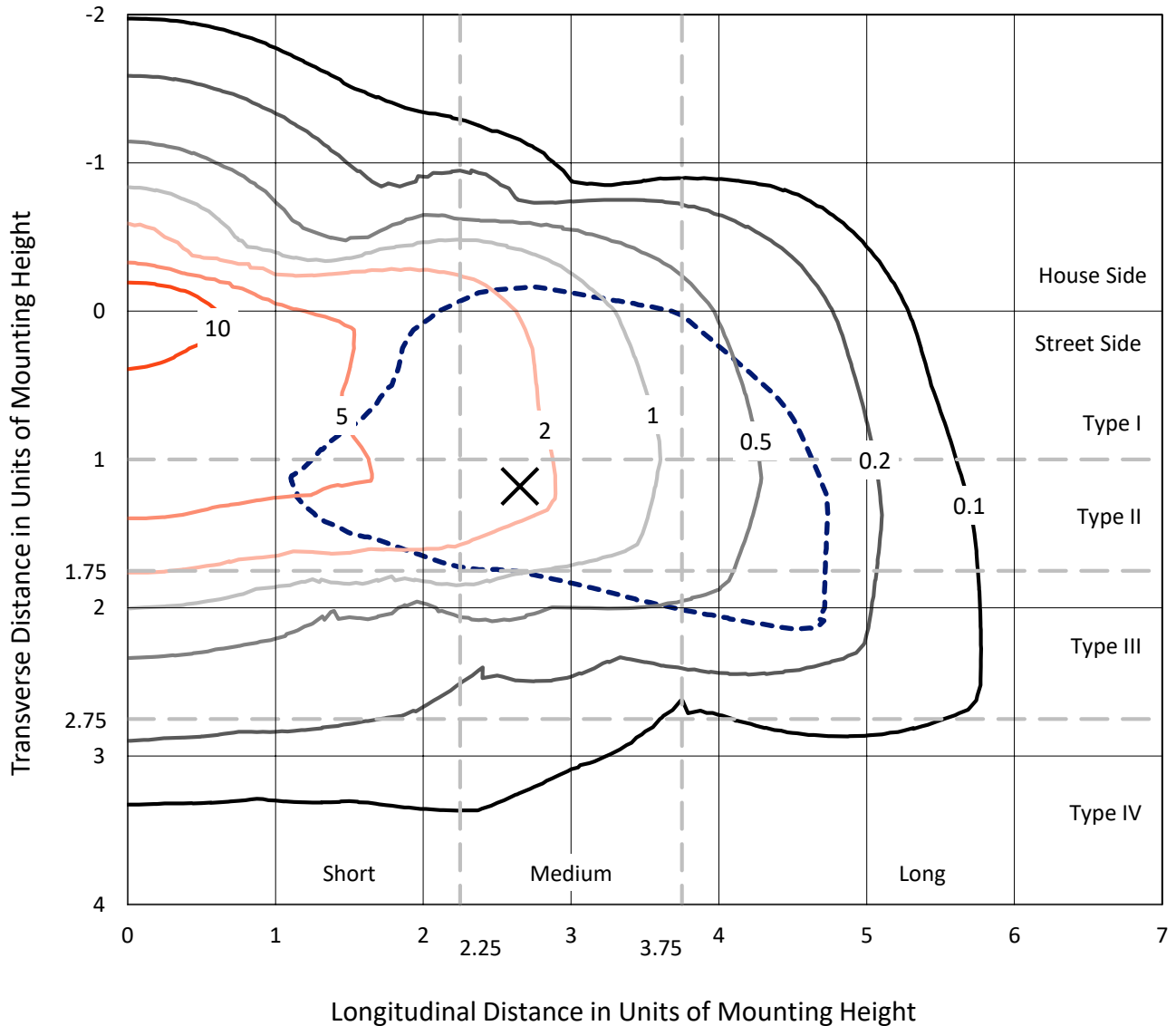
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383641
 CATALOG NUMBER: GAN-SA9B-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

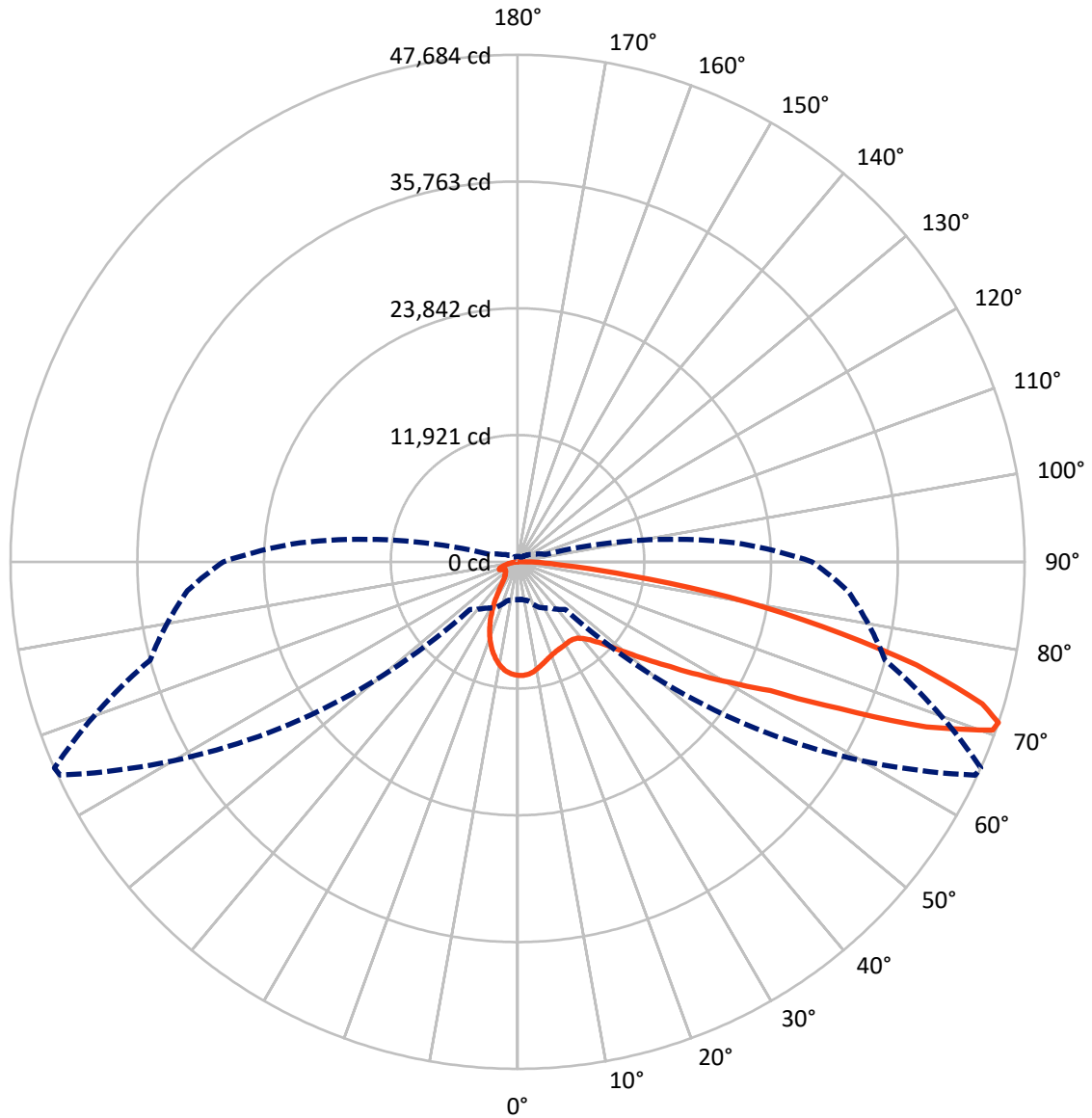
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P383641
CATALOG NUMBER: GAN-SA9B-735-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GAN-SA9B-735-U-SL2

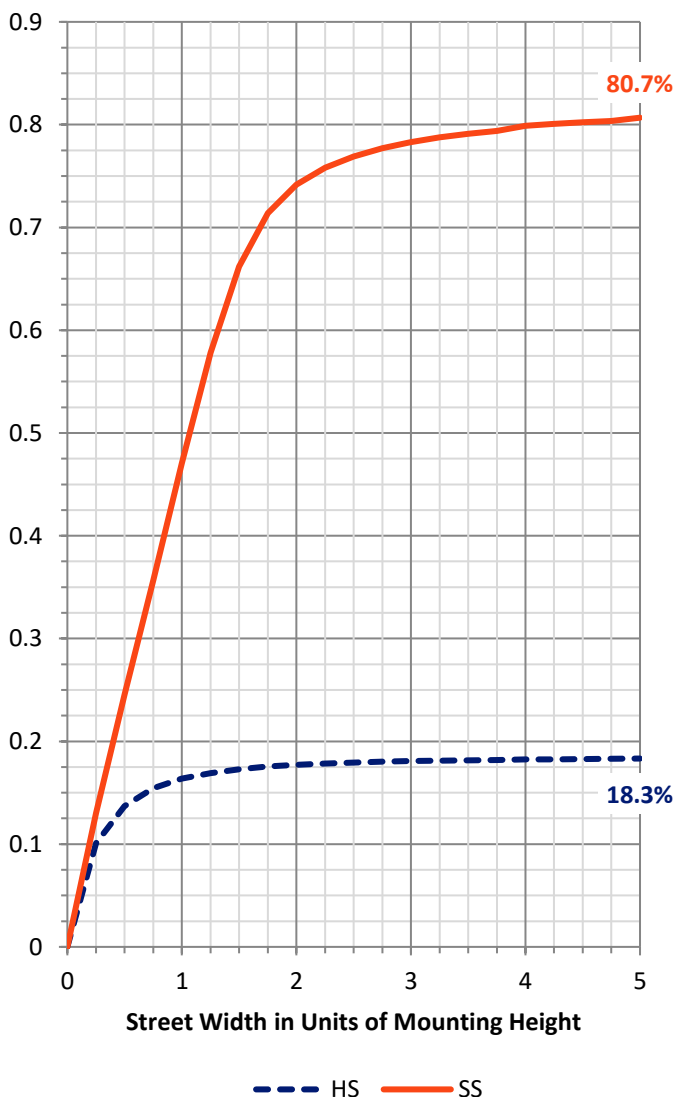
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8640.4	0.0	8640.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	37981.7	0.0	37981.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	46622.1	0.0	46622.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.1	2.0
10°-20°	2254.8	4.8
20°-30°	3028.8	6.5
30°-40°	3984.3	8.5
40°-50°	5796.1	12.4
50°-60°	9054.1	19.4
60°-70°	11341.7	24.3
70°-80°	8651.2	18.6
80°-90°	1571.0	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	46622.1	100.0
0°-180°	46622.1	100.0

Coefficient of Utilization

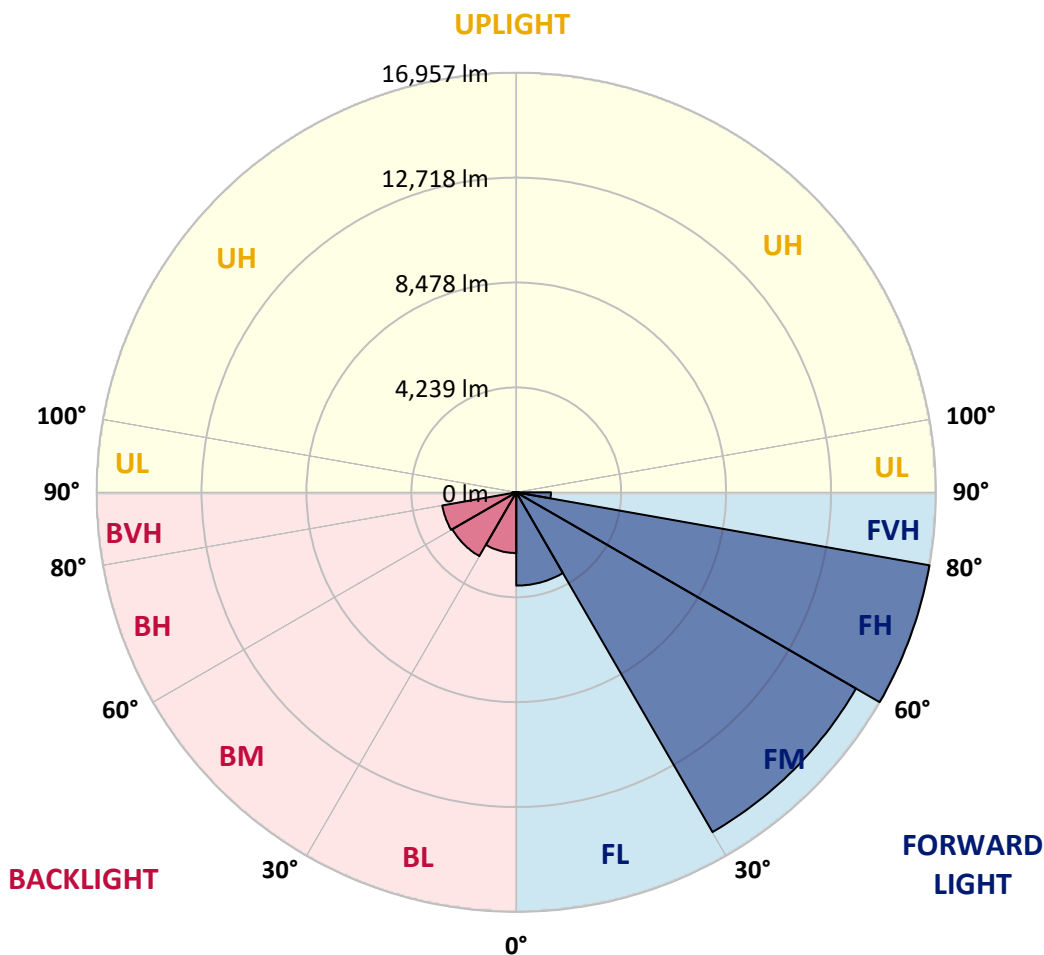


REPORT NUMBER: P383641
 CATALOG NUMBER: GAN-SA9B-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3770.0	8.1			
FM (30°-60°)	15853.8	34.0			
FH (60°-80°)	16957.0	36.4			G5
FVH (80°-90°)	1400.9	3.0			G5
BL (0°-30°)	2453.6	5.3	B3/2500		
BM (30°-60°)	2980.6	6.4	B3/5000		
BH (60°-80°)	3036.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	170.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2
2.5°	10482.2	10466.1	10514.4	10564.3	10583.7	10615.8	10664.1	10691.5	10689.9	10694.7	10678.6
5°	9786.8	9765.9	9862.5	9941.4	10092.7	10263.3	10471.0	10619.1	10622.3	10706.0	10728.5
7.5°	9128.5	9114.0	9225.1	9352.3	9527.7	9788.4	10124.9	10443.6	10463.0	10689.9	10768.8
10°	8600.5	8597.3	8705.1	8843.6	9048.0	9339.3	9725.6	10192.5	10221.5	10612.7	10775.2
12.5°	8188.4	8194.9	8288.3	8446.0	8661.7	8965.9	9384.4	9910.8	9957.5	10490.3	10738.1
15°	7884.2	7910.0	7985.6	8145.0	8357.5	8666.5	9096.3	9650.0	9720.9	10353.5	10717.3
17.5°	7710.3	7739.3	7792.5	7924.5	8124.0	8421.8	8829.1	9435.9	9500.3	10248.8	10718.9
20°	7658.8	7683.0	7713.6	7794.1	7963.1	8233.5	8618.2	9242.8	9312.0	10165.1	10735.0
22.5°	7760.3	7778.0	7781.2	7774.8	7877.7	8098.3	8465.3	9101.1	9175.2	10110.4	10746.2
25°	7977.6	8001.7	7984.0	7924.5	7890.7	8025.8	8386.4	9007.8	9081.8	10070.1	10723.7
27.5°	8304.4	8307.5	8293.1	8215.8	8056.4	8033.9	8362.3	8953.0	9023.9	10023.5	10677.0
30°	8748.6	8769.5	8743.8	8639.2	8378.3	8162.7	8391.3	8899.9	8964.3	9963.9	10601.4
32.5°	9268.5	9320.0	9318.5	9209.0	8835.5	8450.8	8510.3	8867.7	8917.6	9901.1	10509.6
35°	9807.8	9878.6	10010.6	9963.9	9502.0	8906.3	8738.9	8919.2	8953.0	9893.1	10445.2
37.5°	10367.9	10438.7	10710.8	10836.3	10295.5	9558.2	9099.5	9101.1	9117.2	9991.3	10440.4
40°	10953.9	11029.5	11438.4	11765.2	11324.1	10384.1	9680.6	9481.0	9463.3	10232.8	10535.3
42.5°	11774.8	11842.4	12333.3	12750.3	12465.3	11441.6	10483.8	10067.0	10029.9	10706.0	10839.6
45°	12813.1	12871.0	13392.5	13838.4	13691.9	12648.8	11493.1	10873.4	10867.0	11494.7	11456.1
47.5°	14047.6	14092.7	14561.1	14992.5	15045.7	14038.0	12761.6	12117.7	12013.1	12576.5	12410.6
50°	15333.8	15383.7	15702.4	16166.0	16560.4	15897.2	14393.7	13642.0	13501.9	14004.2	13762.8
52.5°	16185.4	16251.3	16528.2	17115.7	18263.5	17935.1	16323.8	15490.0	15277.5	15734.6	15549.5
55°	15805.5	15953.5	16376.9	17318.5	19625.2	21048.1	18704.5	17645.3	17405.5	17785.4	17675.9
57.5°	14078.3	14281.1	14858.9	16312.5	19816.7	23791.1	22303.7	20183.7	20014.8	19905.3	19955.1
60°	10921.7	11116.4	11832.7	13727.4	18482.4	25793.5	27720.2	23313.0	23068.3	22033.2	22078.3
62.5°	7729.7	7631.5	8122.4	9508.4	15018.3	26028.5	33883.7	27498.2	26693.3	24280.4	24082.4
65°	5894.6	5872.1	6092.6	6533.7	9096.3	23216.4	37555.4	34532.5	33275.3	26923.5	26456.7
67.5°	4843.5	4803.2	5020.6	5662.9	5857.7	14978.1	37635.9	42693.5	41458.9	30213.6	29202.8
70°	3982.4	3937.3	4140.1	4969.1	5413.3	7596.1	31675.2	47472.7	47406.6	34379.5	31276.1
71°	3570.2	3538.1	3781.2	4701.9	5318.4	6330.9	27348.5	47485.5	47683.5	35789.6	31153.7
72.5°	2907.1	2918.4	3175.9	4185.2	5247.6	5590.4	20100.1	45272.2	45690.7	37133.7	30041.5
75°	1931.7	1941.3	2279.3	3219.3	5088.2	5469.7	11047.2	37988.4	38757.9	36328.9	27412.8
77.5°	1297.4	1294.2	1524.4	2208.5	4433.0	5469.7	6477.3	28412.5	29257.5	28906.6	21133.5
80°	893.4	886.9	1049.5	1524.4	3356.2	5535.7	5007.7	19911.7	20167.6	15610.7	8589.2
82.5°	547.3	552.1	685.7	1076.9	2284.2	4981.9	4727.6	10857.3	10578.8	4378.4	2145.7
85°	313.9	312.3	437.8	729.2	1466.4	4204.4	4610.1	4672.9	4286.6	1318.3	775.9
87.5°	112.7	120.7	235.0	404.0	840.3	2928.0	3911.5	2430.6	2190.8	595.5	350.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383641
 CATALOG NUMBER: GAN-SA9B-735-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2	10680.2
2.5°	10667.3	10677.0	10665.8	10601.4	10546.6	10458.1	10408.2	10339.0	10318.0	10308.4	10334.1
5°	10707.6	10710.8	10615.8	10446.8	10256.9	10033.1	9872.2	9674.2	9580.8	9540.5	9566.3
7.5°	10744.6	10730.1	10522.5	10199.0	9848.0	9458.5	9112.4	8795.3	8610.2	8534.6	8541.0
10°	10749.4	10688.3	10355.1	9854.5	9310.4	8738.9	8207.8	7718.4	7409.3	7208.1	7269.3
12.5°	10699.6	10596.5	10108.8	9408.5	8653.6	7874.6	7156.6	6422.6	5981.6	5777.2	5783.6
15°	10660.9	10474.1	9806.1	8883.8	7869.7	6837.9	5857.7	4994.9	4524.8	4315.6	4217.4
17.5°	10628.7	10342.2	9455.2	8293.1	6944.1	5635.5	4457.2	3687.8	3430.2	3369.0	3343.3
20°	10583.7	10202.1	9064.1	7609.0	5889.8	4289.8	3254.7	2874.8	2876.5	2947.3	2957.0
22.5°	10520.9	10042.8	8647.2	6841.1	4758.3	3124.4	2551.3	2441.9	2552.9	2688.2	2712.3
25°	10427.5	9854.5	8183.6	5992.8	3628.2	2401.6	2179.5	2174.7	2309.9	2451.6	2472.4
27.5°	10295.5	9608.2	7668.5	5081.8	2673.6	2041.1	1952.5	1986.3	2086.1	2189.1	2197.2
30°	10118.5	9321.6	7100.3	4120.8	2095.8	1817.4	1807.7	1838.2	1899.4	1971.9	1978.3
32.5°	9923.7	9030.3	6493.4	3190.4	1794.8	1696.6	1706.2	1720.8	1749.7	1778.7	1785.1
35°	9746.6	8732.5	5872.1	2424.2	1651.5	1617.7	1611.3	1608.0	1611.3	1601.6	1603.3
37.5°	9632.3	8486.2	5225.1	1930.0	1569.5	1548.5	1529.2	1505.0	1477.7	1461.6	1464.8
40°	9590.5	8302.7	4569.9	1667.7	1501.8	1487.3	1450.3	1398.8	1366.6	1357.0	1357.0
42.5°	9703.2	8207.8	3937.3	1535.7	1445.5	1421.4	1360.2	1300.6	1276.5	1274.8	1273.2
45°	10047.6	8246.3	3335.2	1463.2	1394.0	1347.3	1266.8	1216.9	1200.9	1204.0	1202.4
47.5°	10665.8	8489.5	2820.2	1414.9	1342.5	1281.3	1191.2	1150.9	1131.6	1131.6	1133.2
50°	11716.8	9057.6	2409.7	1374.7	1299.0	1220.1	1136.4	1086.6	1060.8	1059.2	1059.2
52.5°	13247.6	10075.0	2153.7	1340.9	1250.7	1165.4	1081.7	1018.9	988.4	981.9	978.7
55°	15166.4	11533.3	2082.9	1318.3	1186.3	1105.8	1015.7	953.0	919.2	904.6	903.0
57.5°	17312.1	13307.3	2223.0	1290.9	1120.4	1035.0	943.3	883.8	848.3	830.6	829.0
60°	19483.6	15243.7	2794.4	1252.4	1065.6	957.7	869.2	814.5	779.1	759.8	756.5
62.5°	21658.2	17284.8	3961.4	1249.1	1026.9	883.8	793.6	746.9	713.1	692.1	687.3
65°	24111.3	19519.0	5287.8	1334.4	1014.1	816.1	716.3	679.3	650.3	631.0	629.4
67.5°	26928.3	22041.3	5160.6	1509.9	1057.6	754.9	643.9	614.9	594.0	577.8	576.3
70°	28249.8	21646.9	3208.1	1633.8	1118.7	695.4	574.7	553.7	537.6	526.3	521.6
71°	27696.1	20553.9	2689.8	1619.3	1112.3	669.6	547.3	531.2	515.1	505.5	500.6
72.5°	26186.3	18744.7	2243.9	1506.7	1039.9	622.9	511.9	495.8	481.3	470.1	466.8
75°	23498.1	16740.7	1796.4	1204.0	829.0	526.3	449.1	431.4	420.1	413.7	407.3
77.5°	17273.5	11947.0	1389.1	951.3	610.1	429.8	383.1	370.2	358.9	349.3	344.5
80°	6617.4	4627.8	935.2	709.8	447.5	339.6	309.1	302.7	291.4	284.9	284.9
82.5°	1782.0	1382.7	499.0	429.8	299.4	247.9	236.6	233.4	223.8	210.9	212.5
85°	721.1	610.1	280.1	236.6	183.5	146.4	159.4	161.0	149.7	133.6	135.2
87.5°	317.1	259.2	156.1	104.6	80.5	56.4	72.5	72.5	66.0	54.8	49.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)