

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: P319362

Luminaire Tested: **GAN-SA8B-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319362
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-SA8B-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 44867 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

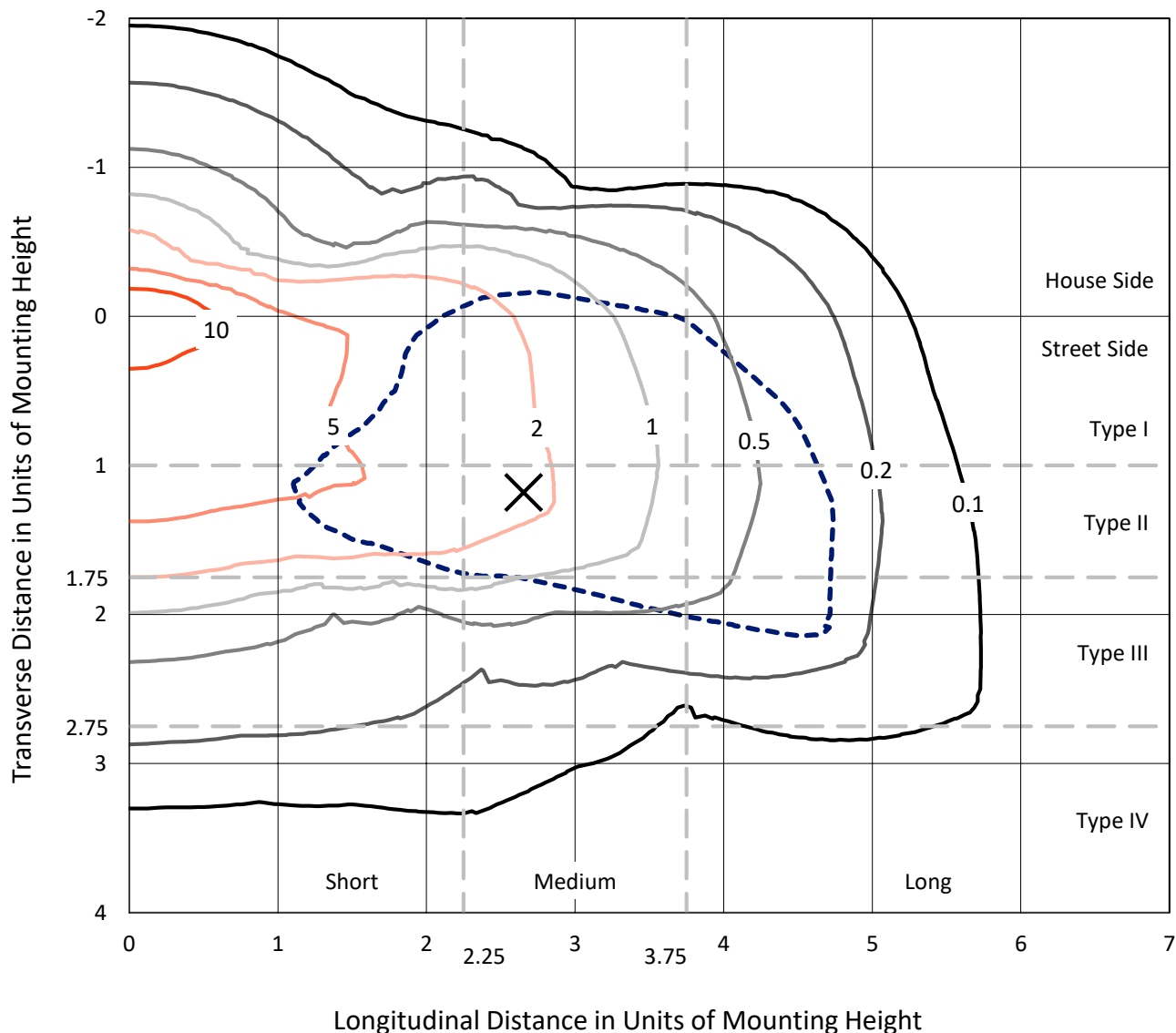
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319362
 CATALOG NUMBER: GAN-SA8B-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

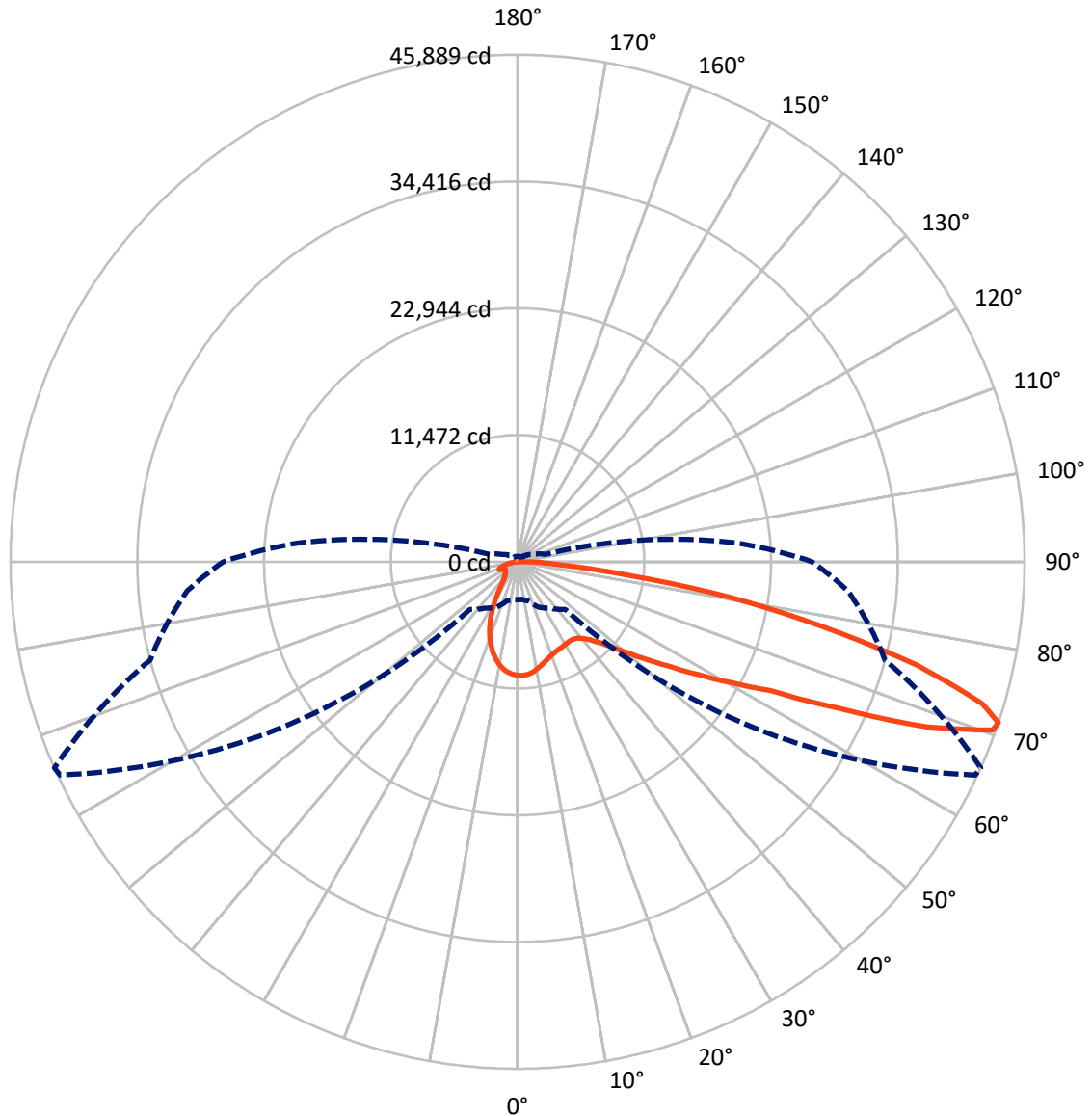
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P319362
CATALOG NUMBER: GAN-SA8B-740-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-SA8B-740-U-SL2

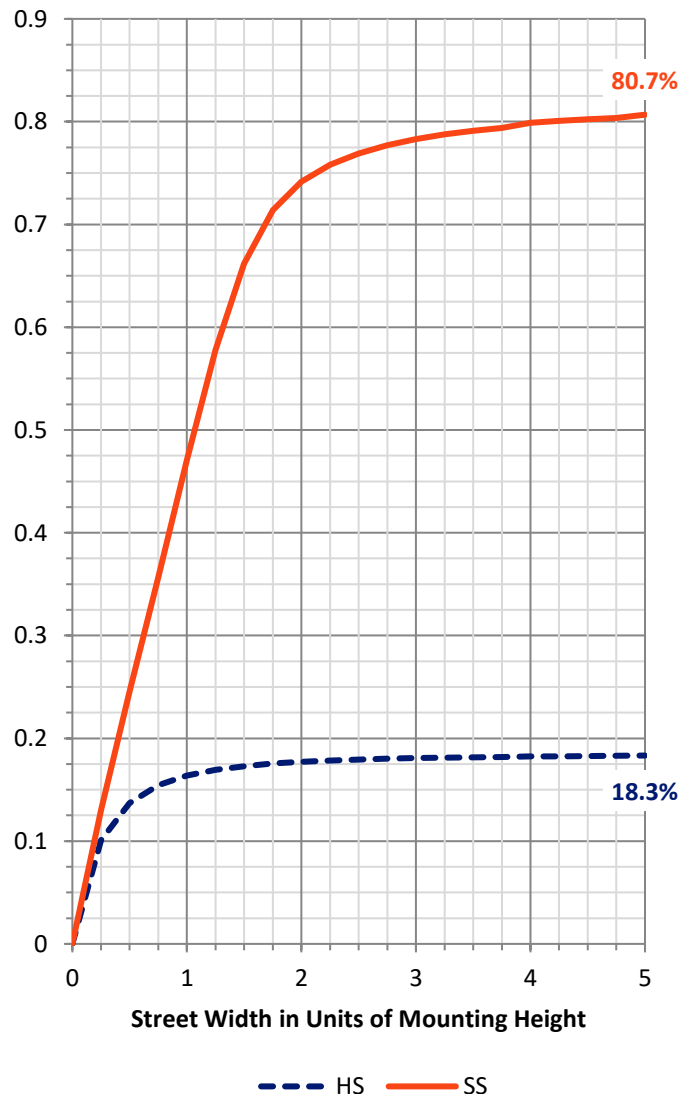
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8315.1	0.0	8315.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	36551.9	0.0	36551.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	44867.0	0.0	44867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.7	2.0
10°-20°	2169.9	4.8
20°-30°	2914.7	6.5
30°-40°	3834.3	8.5
40°-50°	5577.9	12.4
50°-60°	8713.3	19.4
60°-70°	10914.8	24.3
70°-80°	8325.5	18.6
80°-90°	1511.8	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°	44867.0	100.0
0°-180°	44867.0	100.0

Coefficient of Utilization

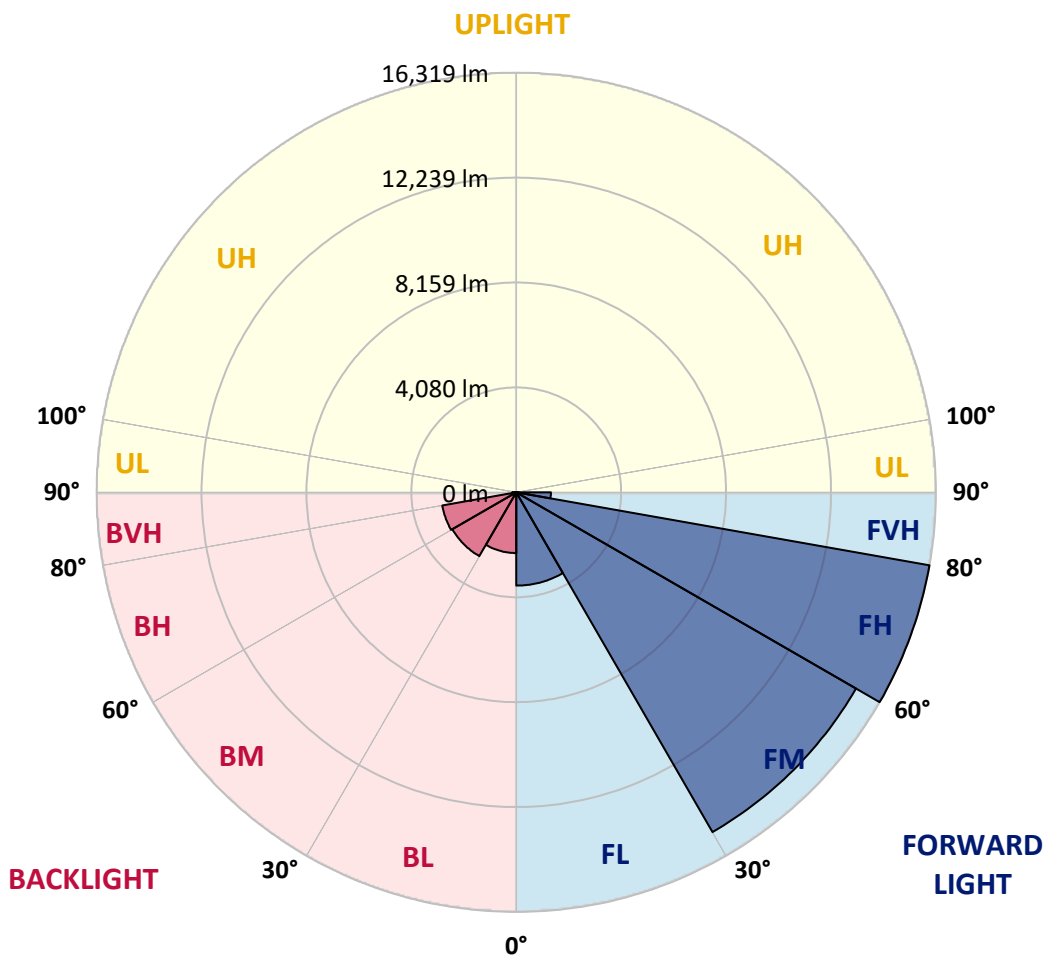


REPORT NUMBER: P319362
 CATALOG NUMBER: GAN-SA8B-740-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3628.1	8.1			
FM (30°-60°)	15257.0	34.0			
FH (60°-80°)	16318.6	36.4			G5
FVH (80°-90°)	1348.2	3.0			G5
BL (0°-30°)	2361.3	5.3	B3/2500		
BM (30°-60°)	2868.4	6.4	B3/5000		
BH (60°-80°)	2921.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	163.7	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°	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2
2.5°	10087.6	10072.1	10118.6	10166.6	10185.2	10216.2	10262.7	10289.0	10287.5	10292.1	10276.6
5°	9418.4	9398.3	9491.2	9567.1	9712.7	9876.9	10076.8	10219.3	10222.4	10302.9	10324.6
7.5°	8784.8	8770.9	8877.8	9000.2	9169.0	9420.0	9743.7	10050.4	10069.0	10287.5	10363.4
10°	8276.7	8273.6	8377.4	8510.7	8707.4	8987.8	9359.6	9808.8	9836.7	10213.1	10369.6
12.5°	7880.2	7886.4	7976.2	8128.0	8335.6	8628.4	9031.1	9537.7	9582.6	10095.4	10333.9
15°	7587.4	7612.2	7685.0	7838.4	8042.8	8340.3	8753.9	9286.7	9354.9	9963.7	10313.8
17.5°	7420.1	7448.0	7499.1	7626.1	7818.2	8104.8	8496.7	9080.7	9142.7	9863.0	10315.3
20°	7370.5	7393.8	7423.2	7500.7	7663.3	7923.6	8293.8	8894.8	8961.4	9782.5	10330.8
22.5°	7468.1	7485.2	7488.3	7482.1	7581.2	7793.4	8146.6	8758.5	8829.8	9729.8	10341.7
25°	7677.3	7700.5	7683.4	7626.1	7593.6	7723.7	8070.7	8668.7	8739.9	9691.1	10320.0
27.5°	7991.7	7994.8	7980.9	7906.5	7753.2	7731.5	8047.5	8616.0	8684.2	9646.1	10275.1
30°	8419.3	8439.4	8414.6	8313.9	8063.0	7855.4	8075.4	8564.9	8626.8	9588.8	10202.3
32.5°	8919.6	8969.2	8967.6	8862.3	8502.9	8132.7	8190.0	8533.9	8581.9	9528.4	10114.0
35°	9438.6	9506.7	9633.7	9588.8	9144.2	8571.1	8410.0	8583.5	8616.0	9520.7	10052.0
37.5°	9977.6	10045.8	10307.6	10428.4	9907.9	9198.5	8757.0	8758.5	8774.0	9615.2	10047.3
40°	10541.5	10614.3	11007.8	11322.2	10897.8	9993.1	9316.2	9124.1	9107.1	9847.5	10138.7
42.5°	11331.5	11396.6	11869.1	12270.3	11996.1	11010.9	10089.2	9688.0	9652.3	10302.9	10431.5
45°	12330.7	12386.5	12888.4	13317.5	13176.5	12172.7	11060.4	10464.1	10457.9	11062.0	11024.8
47.5°	13518.8	13562.2	14013.0	14428.2	14479.3	13509.5	12281.1	11661.5	11560.8	12103.0	11943.4
50°	14756.6	14804.6	15111.3	15557.4	15937.0	15298.7	13851.9	13128.5	12993.7	13477.0	13244.7
52.5°	15576.0	15639.5	15906.0	16471.4	17575.9	17259.9	15709.2	14906.8	14702.3	15142.3	14964.1
55°	15210.4	15353.0	15760.4	16666.6	18886.4	20255.8	18000.3	16981.0	16750.2	17115.8	17010.5
57.5°	13548.3	13743.5	14299.6	15698.4	19070.8	22895.4	21464.1	19423.9	19261.3	19156.0	19204.0
60°	10510.5	10698.0	11387.3	13210.6	17786.6	24822.5	26676.7	22435.4	22199.9	21203.8	21247.2
62.5°	7438.7	7344.2	7816.7	9150.4	14452.9	25048.7	32608.2	26463.0	25688.4	23366.4	23175.8
65°	5672.7	5651.1	5863.3	6287.7	8753.9	22342.4	36141.6	33232.5	32022.6	25910.0	25460.7
67.5°	4661.2	4622.5	4831.6	5449.7	5637.1	14414.2	36219.1	41086.3	39898.2	29076.3	28103.5
70°	3832.4	3789.1	3984.2	4782.0	5209.6	7310.1	30482.8	45685.5	45622.0	33085.3	30098.7
71°	3435.9	3404.9	3638.8	4524.9	5118.2	6092.5	26318.9	45697.9	45888.5	34442.3	29980.9
72.5°	2797.6	2808.5	3056.3	4027.6	5050.0	5380.0	19343.4	43567.9	43970.7	35735.8	28910.5
75°	1858.9	1868.2	2193.5	3098.2	4896.6	5263.8	10631.4	36558.3	37298.8	34961.2	26380.9
77.5°	1248.6	1245.5	1467.0	2125.3	4266.2	5263.8	6233.5	27342.9	28156.1	27818.4	20337.9
80°	859.7	853.5	1010.0	1467.0	3229.8	5327.3	4819.2	19162.1	19408.5	15023.0	8265.9
82.5°	526.7	531.3	659.9	1036.3	2198.1	4794.4	4549.7	10448.6	10180.6	4213.5	2064.9
85°	302.1	300.5	421.4	701.7	1411.2	4046.2	4436.6	4497.0	4125.2	1268.7	746.7
87.5°	108.4	116.2	226.2	388.8	808.6	2817.8	3764.3	2339.1	2108.3	573.2	337.7
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: P319362
 CATALOG NUMBER: GAN-SA8B-740-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2	10278.2
2.5°	10265.8	10275.1	10264.2	10202.3	10149.6	10064.4	10016.4	9949.8	9929.6	9920.3	9945.1
5°	10304.5	10307.6	10216.2	10053.5	9870.8	9655.4	9500.5	9310.0	9220.1	9181.4	9206.2
7.5°	10340.1	10326.2	10126.4	9815.0	9477.3	9102.4	8769.4	8464.2	8286.0	8213.2	8219.4
10°	10344.8	10285.9	9965.2	9483.5	8959.9	8410.0	7898.8	7427.8	7130.4	6936.8	6995.7
12.5°	10296.8	10197.6	9728.2	9054.4	8327.9	7578.1	6887.2	6180.8	5756.4	5559.7	5565.9
15°	10259.6	10079.9	9437.0	8549.4	7573.5	6580.5	5637.1	4806.8	4354.5	4153.1	4058.6
17.5°	10228.6	9952.9	9099.3	7980.9	6682.7	5423.3	4289.4	3548.9	3301.1	3242.2	3217.4
20°	10185.2	9818.1	8722.9	7322.5	5668.1	4128.3	3132.2	2766.7	2768.2	2836.4	2845.7
22.5°	10124.8	9664.7	8321.7	6583.6	4579.1	3006.8	2455.3	2350.0	2456.8	2587.0	2610.2
25°	10035.0	9483.5	7875.5	5767.2	3491.6	2311.2	2097.5	2092.8	2222.9	2359.3	2379.4
27.5°	9907.9	9246.5	7379.8	4890.5	2573.0	1964.2	1879.0	1911.6	2007.6	2106.8	2114.5
30°	9737.5	8970.7	6833.0	3965.7	2016.9	1748.9	1739.6	1769.1	1827.9	1897.6	1903.8
32.5°	9550.1	8690.4	6249.0	3070.3	1727.2	1632.7	1642.0	1656.0	1683.9	1711.7	1717.9
35°	9379.7	8403.8	5651.1	2332.9	1589.4	1556.8	1550.6	1547.5	1550.6	1541.3	1542.9
37.5°	9269.7	8166.8	5028.3	1857.3	1510.4	1490.2	1471.6	1448.4	1422.1	1406.6	1409.7
40°	9229.4	7990.2	4397.8	1604.8	1445.3	1431.4	1395.7	1346.2	1315.2	1305.9	1305.9
42.5°	9337.9	7898.8	3789.1	1477.8	1391.1	1367.8	1309.0	1251.7	1228.4	1226.9	1225.3
45°	9669.4	7935.9	3209.7	1408.1	1341.5	1296.6	1219.1	1171.1	1155.6	1158.7	1157.2
47.5°	10264.2	8169.9	2714.0	1361.6	1291.9	1233.1	1146.3	1107.6	1089.0	1089.0	1090.6
50°	11275.8	8716.7	2319.0	1322.9	1250.1	1174.2	1093.7	1045.6	1020.8	1019.3	1019.3
52.5°	12748.9	9695.7	2072.7	1290.4	1203.6	1121.5	1041.0	980.6	951.1	944.9	941.8
55°	14595.5	11099.2	2004.5	1268.7	1141.7	1064.2	977.5	917.1	884.5	870.6	869.0
57.5°	16660.4	12806.3	2139.3	1242.4	1078.2	996.1	907.8	850.4	816.4	799.3	797.8
60°	18750.1	14669.8	2689.2	1205.2	1025.5	921.7	836.5	783.8	749.8	731.2	728.1
62.5°	20842.9	16634.0	3812.3	1202.1	988.3	850.4	763.7	718.8	686.2	666.1	661.5
65°	23203.7	18784.2	5088.7	1284.2	975.9	785.4	689.3	653.7	625.8	607.2	605.7
67.5°	25914.6	21211.6	4966.4	1453.0	1017.7	726.5	619.6	591.7	571.6	556.1	554.6
70°	27186.4	20832.1	3087.3	1572.3	1076.6	669.2	553.0	532.9	517.4	506.5	501.9
71°	26653.5	19780.2	2588.5	1558.4	1070.4	644.4	526.7	511.2	495.7	486.4	481.8
72.5°	25200.5	18039.1	2159.4	1449.9	1000.7	599.5	492.6	477.1	463.2	452.3	449.2
75°	22613.5	16110.5	1728.8	1158.7	797.8	506.5	432.2	415.2	404.3	398.1	391.9
77.5°	16623.2	11497.3	1336.9	915.5	587.1	413.6	368.7	356.3	345.4	336.2	331.5
80°	6368.3	4453.6	900.0	683.1	430.6	326.9	297.4	291.2	280.4	274.2	274.2
82.5°	1714.8	1330.7	480.2	413.6	288.1	238.6	227.7	224.6	215.3	202.9	204.5
85°	694.0	587.1	269.5	227.7	176.6	141.0	153.4	154.9	144.1	128.6	130.1
87.5°	305.2	249.4	150.3	100.7	77.5	54.2	69.7	69.7	63.5	52.7	48.0
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)