

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: P323583

Luminaire Tested: **GAN-SA9D-750-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-750-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59259 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

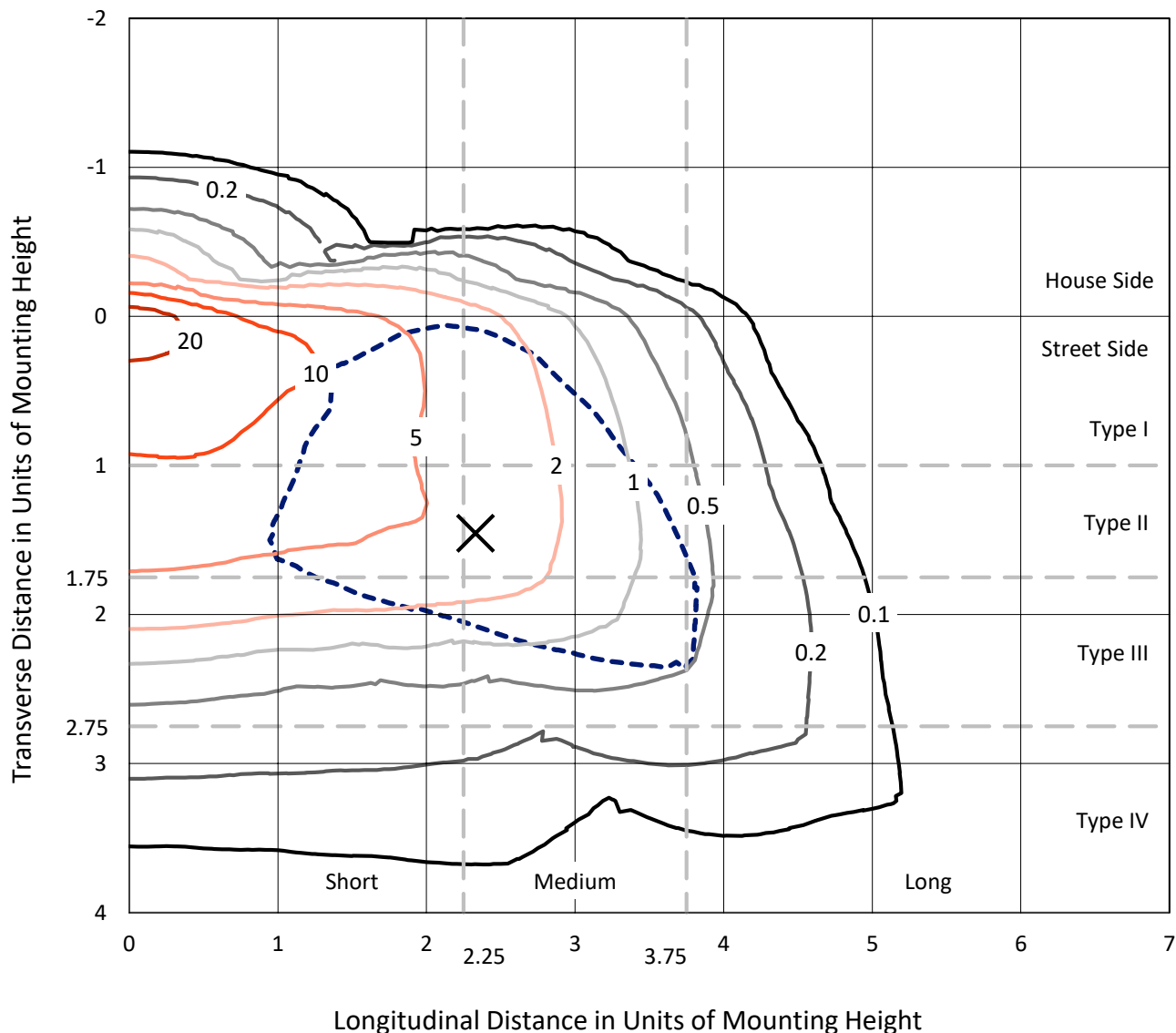
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

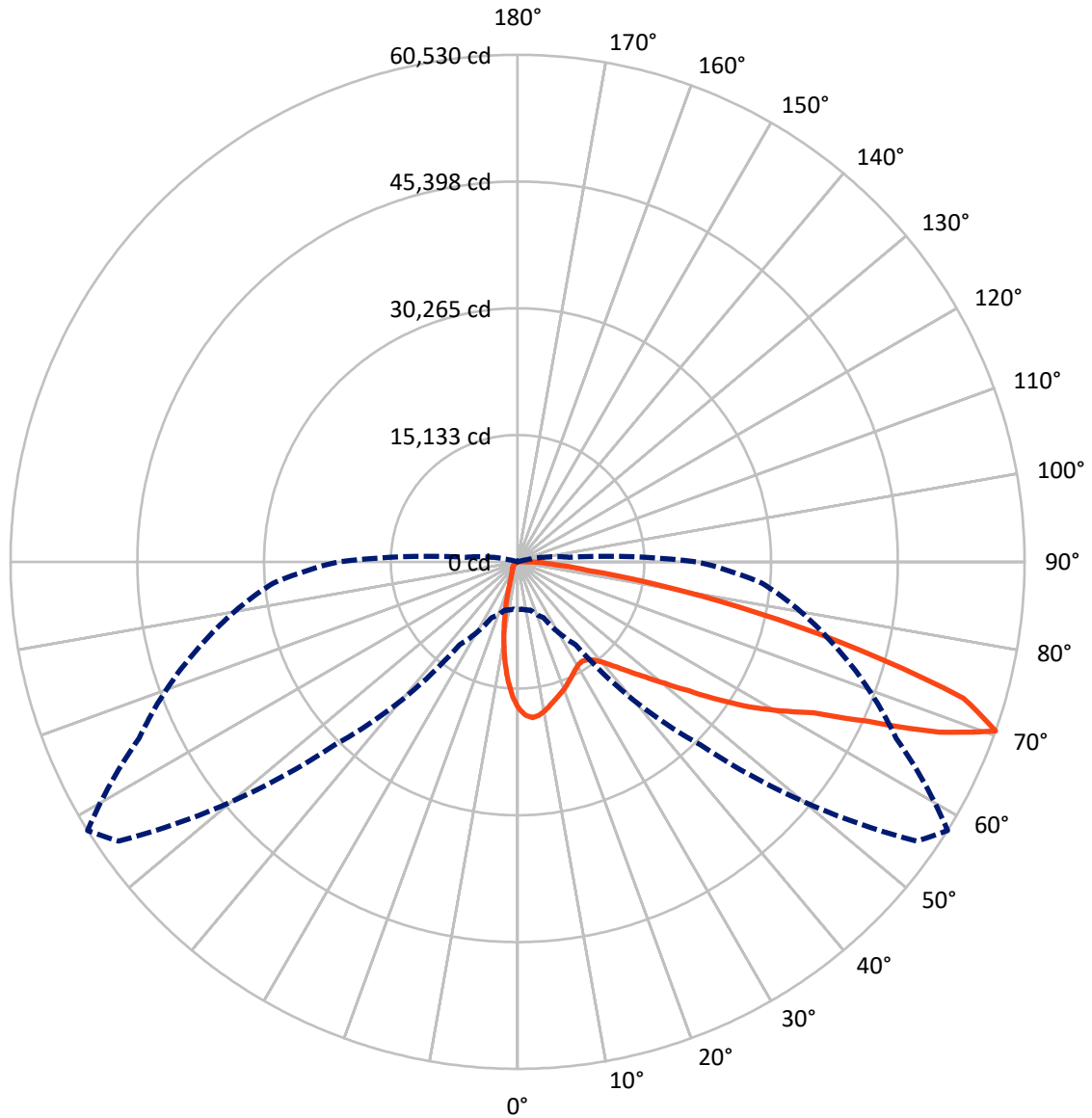
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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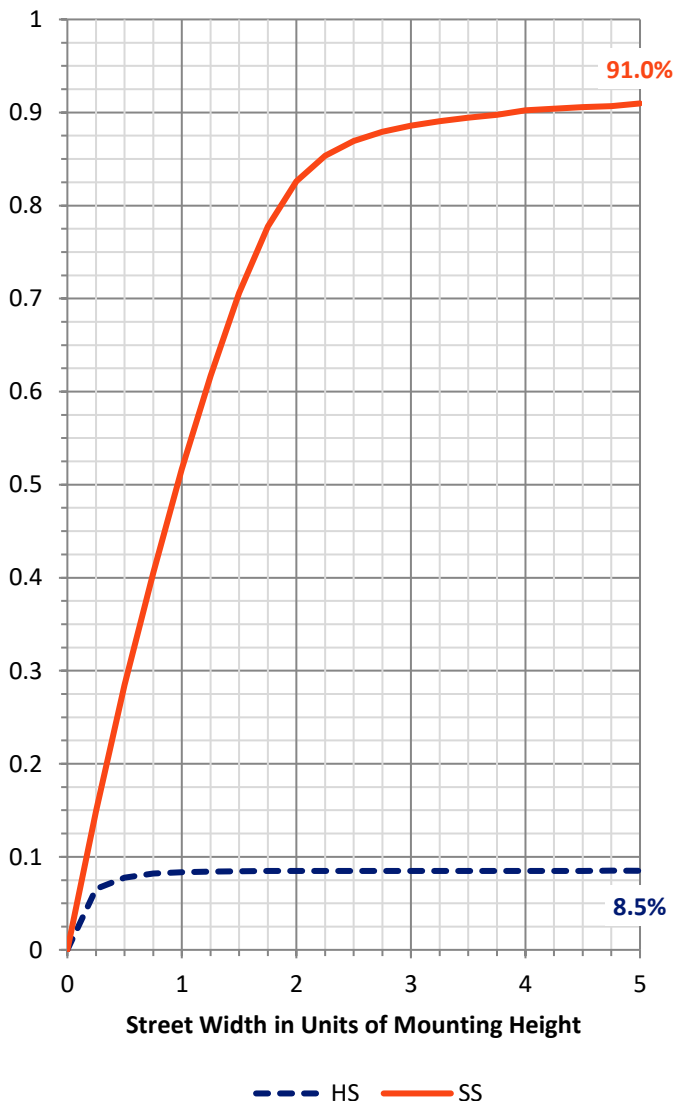
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5071.3	0.0	5071.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	54187.7	0.0	54187.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	59259.0	0.0	59259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1431.4	2.4
10°-20°	3004.3	5.1
20°-30°	3949.6	6.7
30°-40°	5230.8	8.8
40°-50°	7818.4	13.2
50°-60°	12524.8	21.1
60°-70°	15787.4	26.6
70°-80°	8515.6	14.4
80°-90°	996.8	1.7
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°	59259.0	100.0
0°-180°	59259.0	100.0

Coefficient of Utilization

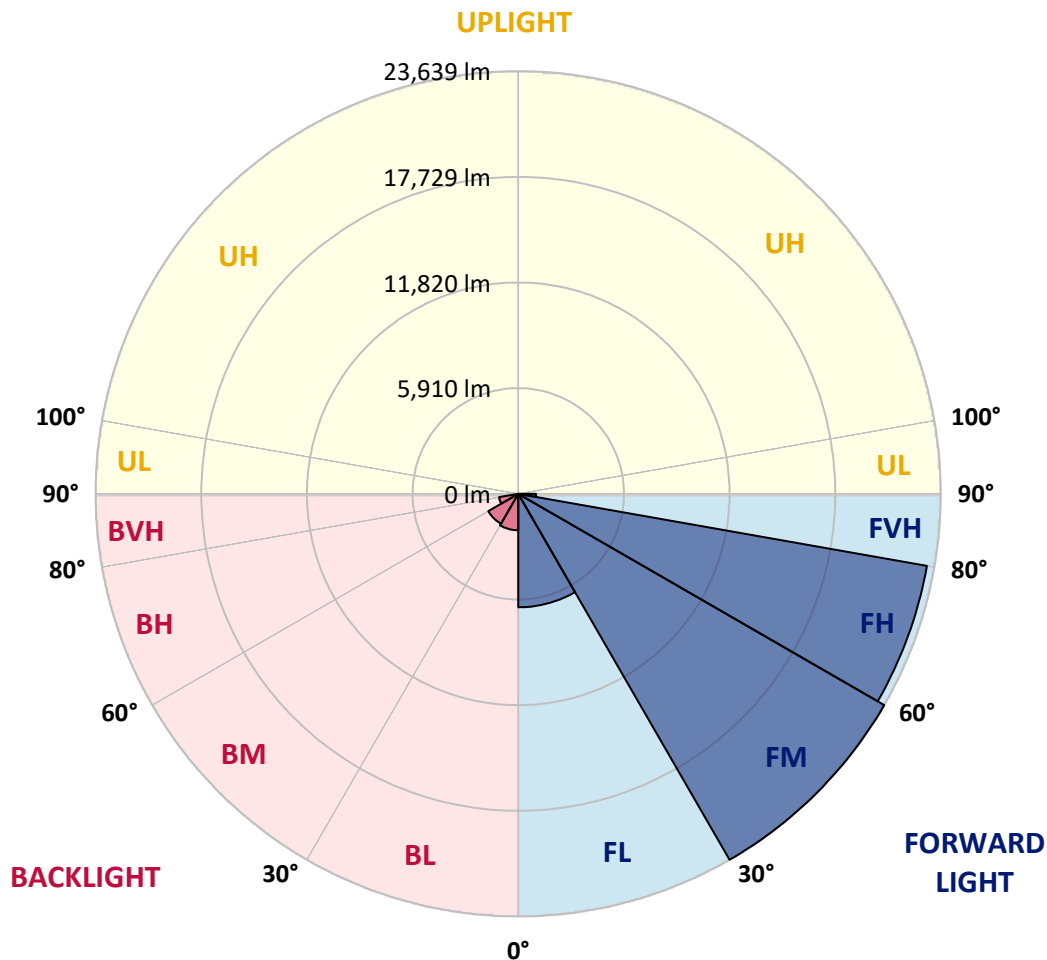


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6347.9	10.7			
FM (30°-60°)	23639.3	39.9			
FH (60°-80°)	23212.4	39.2			G5
FVH (80°-90°)	988.2	1.7			G5
BL (0°-30°)	2037.4	3.4	B3/2500		
BM (30°-60°)	1934.6	3.3	B2/2500		
BH (60°-80°)	1090.6	1.8	B3/2500		G3/2500
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8
2.5°	18956.2	18909.4	18892.1	18862.5	18749.2	18638.3	18419.0	18357.4	18219.4	17891.7	17544.3
5°	18971.0	18968.5	19020.2	19007.9	18968.5	18916.7	18759.0	18677.7	18443.6	17975.5	17339.7
7.5°	18056.8	18103.6	18219.4	18313.0	18421.5	18561.9	18581.6	18502.8	18310.6	17805.4	16962.7
10°	16829.7	16903.6	17066.2	17251.0	17534.4	17815.3	18066.6	18056.8	17990.3	17492.5	16509.3
12.5°	15600.1	15686.3	15873.6	16147.1	16548.8	17007.1	17455.5	17517.1	17628.0	17211.6	16090.4
15°	14523.3	14597.2	14782.0	15117.1	15614.9	16230.9	16888.8	17002.2	17288.0	16992.3	15740.5
17.5°	13609.1	13655.9	13791.5	14163.5	14740.1	15486.7	16341.8	16563.5	16989.8	16819.8	15437.5
20°	12970.9	12978.3	13067.0	13328.2	13904.8	14740.1	15775.0	16092.9	16674.4	16672.0	15124.5
22.5°	12655.5	12630.9	12648.1	12798.4	13222.3	14028.0	15208.3	15585.3	16391.1	16546.3	14806.7
25°	12596.4	12576.7	12527.4	12547.1	12803.4	13404.6	14636.6	15072.8	16142.2	16469.9	14530.7
27.5°	12781.2	12800.9	12717.1	12628.4	12648.1	13000.5	14129.0	14634.2	15940.1	16469.9	14336.0
30°	13153.3	13163.1	13101.5	12985.7	12830.5	12887.1	13776.7	14281.8	15839.1	16583.3	14212.8
32.5°	13564.8	13619.0	13611.6	13517.9	13296.2	13067.0	13692.9	14153.7	15831.7	16834.6	14200.5
35°	14074.8	14136.4	14239.9	14220.2	13988.6	13611.6	13978.7	14340.9	15977.1	17248.6	14333.6
37.5°	14616.9	14710.6	14932.3	15038.3	14888.0	14461.7	14619.4	14878.1	16366.4	17918.8	14671.1
40°	15141.8	15247.7	15651.8	16068.3	15954.9	15516.3	15590.2	15797.2	17058.8	18882.2	15311.8
42.5°	15656.8	15814.5	16408.3	17093.3	17228.9	16879.0	16918.4	17083.5	18086.4	20207.9	16359.0
45°	16272.8	16450.2	17329.9	18175.1	18537.3	18384.5	18552.1	18660.5	19429.3	21959.9	17770.9
47.5°	17177.1	17381.6	18460.9	19424.3	20060.1	20158.6	20496.2	20567.7	21127.0	24000.1	19611.6
50°	18941.4	18998.1	19973.8	20848.6	21765.2	22356.6	22741.0	22795.2	23182.1	26230.1	21910.6
52.5°	21161.5	21198.5	21750.4	22336.9	23379.2	24586.6	25486.0	25562.4	25643.7	28403.5	24180.0
55°	23366.9	23361.9	23726.6	24071.6	25264.2	27018.6	28970.2	29017.0	28433.0	30465.9	25914.7
57.5°	24744.3	24877.4	25431.8	25875.3	27541.0	29790.7	32498.8	32671.2	31362.8	31993.6	27629.7
60°	24305.7	24369.8	25599.3	27240.4	30377.2	33730.8	36069.2	36113.6	33565.7	33518.9	29798.1
62.5°	20708.1	20742.6	22674.5	26057.7	31813.7	38841.3	40376.4	39654.4	36098.8	35635.5	32392.8
65°	14193.1	14417.3	16031.3	20212.9	29174.7	42047.1	47044.2	45849.1	39960.0	38686.1	34738.6
67.5°	8358.2	8311.3	9109.7	12189.8	21427.6	39918.1	55478.8	54291.1	45225.7	40728.8	34051.1
70°	5709.3	5677.2	5982.8	7379.9	12096.2	30966.1	58132.6	60530.1	49875.5	39353.8	29305.3
72.5°	4075.6	4092.8	4543.8	5733.9	7594.3	18042.0	49991.3	55666.0	48419.2	34307.4	22275.3
75°	2767.2	2814.0	3459.6	4703.9	6657.9	9178.7	35475.4	42315.7	39427.8	24934.0	12803.4
77.5°	1488.3	1540.1	2301.5	3789.8	6019.7	6377.0	22819.8	29123.0	24766.5	11209.1	3710.9
80°	620.9	650.5	1076.8	2754.8	5201.7	5600.9	13426.8	17660.1	10553.7	2210.3	827.9
82.5°	268.6	283.4	448.5	1643.5	3888.3	4728.6	7108.9	8496.1	3198.4	485.4	416.4
85°	51.7	54.2	184.8	869.8	2481.3	2668.6	4607.8	4516.7	1436.6	209.4	303.1
87.5°	0.0	0.0	44.4	273.5	729.4	1453.8	2811.5	2777.0	487.9	101.0	113.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8	17504.8
2.5°	17366.8	17196.8	16839.5	16398.5	16060.9	15688.8	15393.1	15018.6	14855.9	14863.3	14774.6
5°	16977.5	16627.6	15836.6	14838.7	14069.9	13276.5	12593.9	11913.8	11512.2	11381.6	11258.4
7.5°	16420.6	15866.2	14604.6	13067.0	11766.0	10494.5	9388.1	8414.8	7798.8	7498.2	7387.3
10°	15792.3	15013.6	13187.8	11162.3	9304.4	7584.4	6150.3	4903.5	4405.8	4068.2	3982.0
12.5°	15240.3	14185.7	11802.9	9208.3	7002.9	4928.2	3560.6	2784.4	2446.8	2313.8	2291.6
15°	14720.4	13412.0	10469.9	7439.1	4849.3	3033.3	2264.5	2000.8	1922.0	1899.8	1899.8
17.5°	14230.1	12675.2	9166.4	5697.0	3208.2	2126.5	1875.2	1816.0	1791.4	1788.9	1791.4
20°	13717.5	11938.5	7885.1	4174.2	2239.8	1801.2	1732.2	1700.2	1692.8	1692.8	1692.8
22.5°	13227.2	11201.7	6638.2	2981.5	1796.3	1643.5	1609.0	1586.9	1579.5	1577.0	1572.1
25°	12756.5	10501.9	5421.0	2106.8	1577.0	1505.6	1476.0	1446.4	1424.2	1411.9	1404.5
27.5°	12369.7	9878.5	4287.5	1690.4	1424.2	1362.6	1325.7	1281.3	1227.1	1202.5	1192.6
30°	12061.7	9309.3	3304.3	1426.7	1281.3	1219.7	1163.0	1086.7	1007.8	965.9	963.5
32.5°	11820.2	8749.9	2508.4	1261.6	1153.2	1076.8	995.5	899.4	808.2	761.4	758.9
35°	11701.9	8257.1	1917.1	1140.9	1039.8	943.7	842.7	736.8	648.1	603.7	598.8
37.5°	11780.8	7840.7	1495.7	1039.8	943.7	832.9	714.6	603.7	524.8	485.4	483.0
40°	12069.1	7574.6	1214.8	953.6	862.4	726.9	598.8	495.3	428.8	396.7	394.3
42.5°	12682.6	7476.0	1037.4	882.1	783.6	628.3	497.7	409.0	347.4	325.3	320.3
45°	13707.7	7621.4	916.6	813.1	702.3	534.7	411.5	335.1	280.9	263.7	261.2
47.5°	15072.8	8003.3	830.4	746.6	628.3	450.9	342.5	271.0	229.2	211.9	209.4
50°	16832.1	8609.5	758.9	680.1	559.3	381.9	283.4	214.4	177.4	165.1	165.1
52.5°	18746.7	9331.5	694.9	618.5	490.4	317.9	229.2	165.1	140.5	125.7	125.7
55°	20328.7	9962.3	625.9	571.7	406.6	263.7	174.9	125.7	103.5	96.1	96.1
57.5°	21908.1	10635.0	547.0	490.4	325.3	214.4	133.1	93.6	76.4	71.5	71.5
60°	23955.8	11458.0	470.6	399.2	256.3	162.6	98.6	66.5	56.7	54.2	54.2
62.5°	26208.0	11940.9	401.6	320.3	199.6	120.7	71.5	44.4	41.9	41.9	39.4
65°	27585.4	11258.4	337.6	256.3	155.2	91.2	46.8	32.0	37.0	34.5	29.6
67.5°	25828.5	8814.0	276.0	199.6	120.7	69.0	29.6	22.2	39.4	32.0	24.6
70°	21385.8	6170.1	214.4	140.5	96.1	59.1	19.7	14.8	41.9	32.0	19.7
72.5°	16004.2	4129.8	170.0	93.6	71.5	51.7	17.2	7.4	37.0	27.1	17.2
75°	8745.0	1663.3	135.5	59.1	44.4	37.0	12.3	4.9	24.6	19.7	12.3
77.5°	2301.5	438.6	98.6	39.4	24.6	14.8	7.4	2.5	12.3	9.9	4.9
80°	586.5	170.0	64.1	27.1	17.2	7.4	0.0	0.0	2.5	0.0	0.0
82.5°	312.9	71.5	39.4	19.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	236.6	46.8	22.2	12.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	91.2	14.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)