

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: P323302

Luminaire Tested: **GAN-SA8D-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51505 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

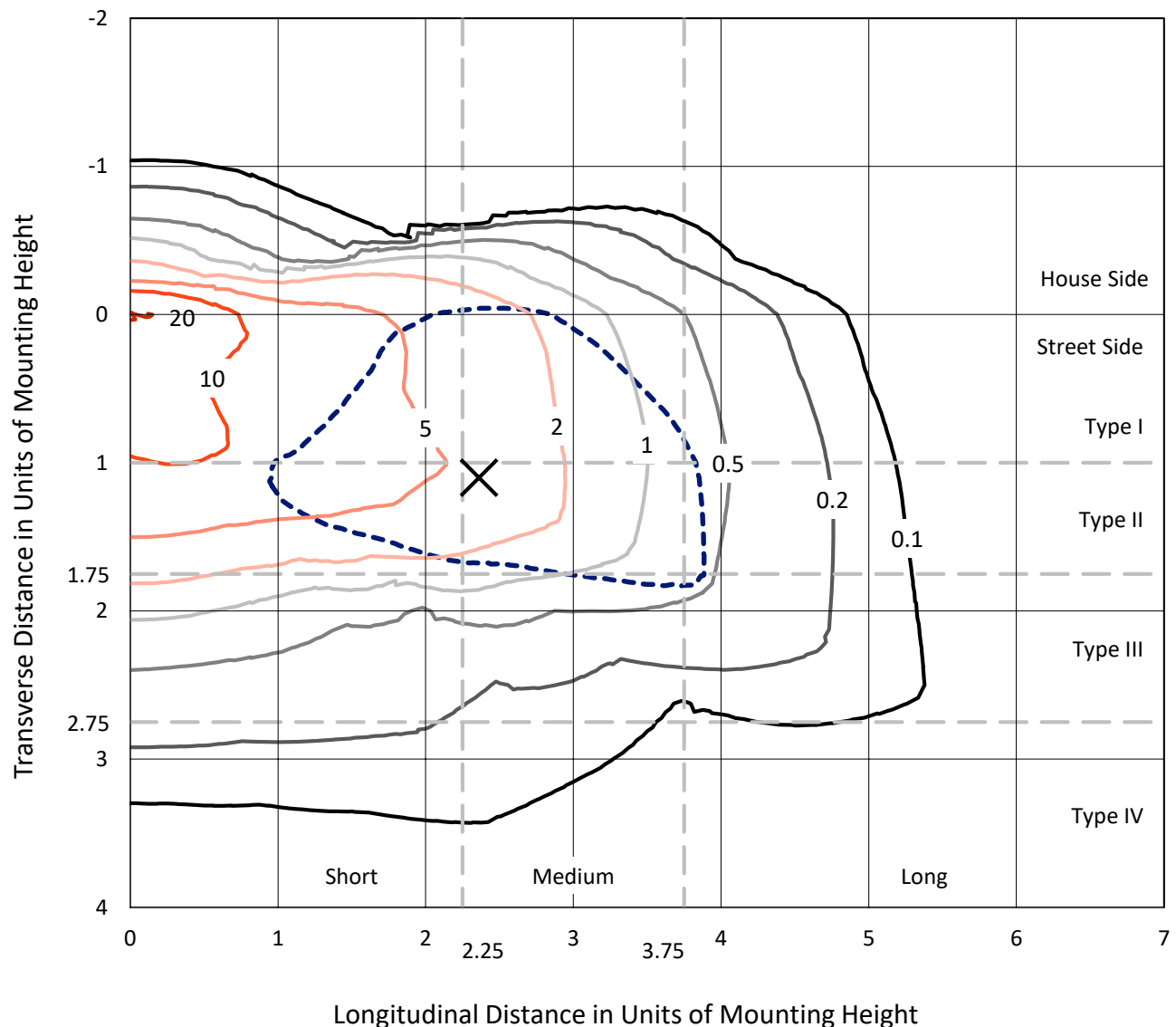
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

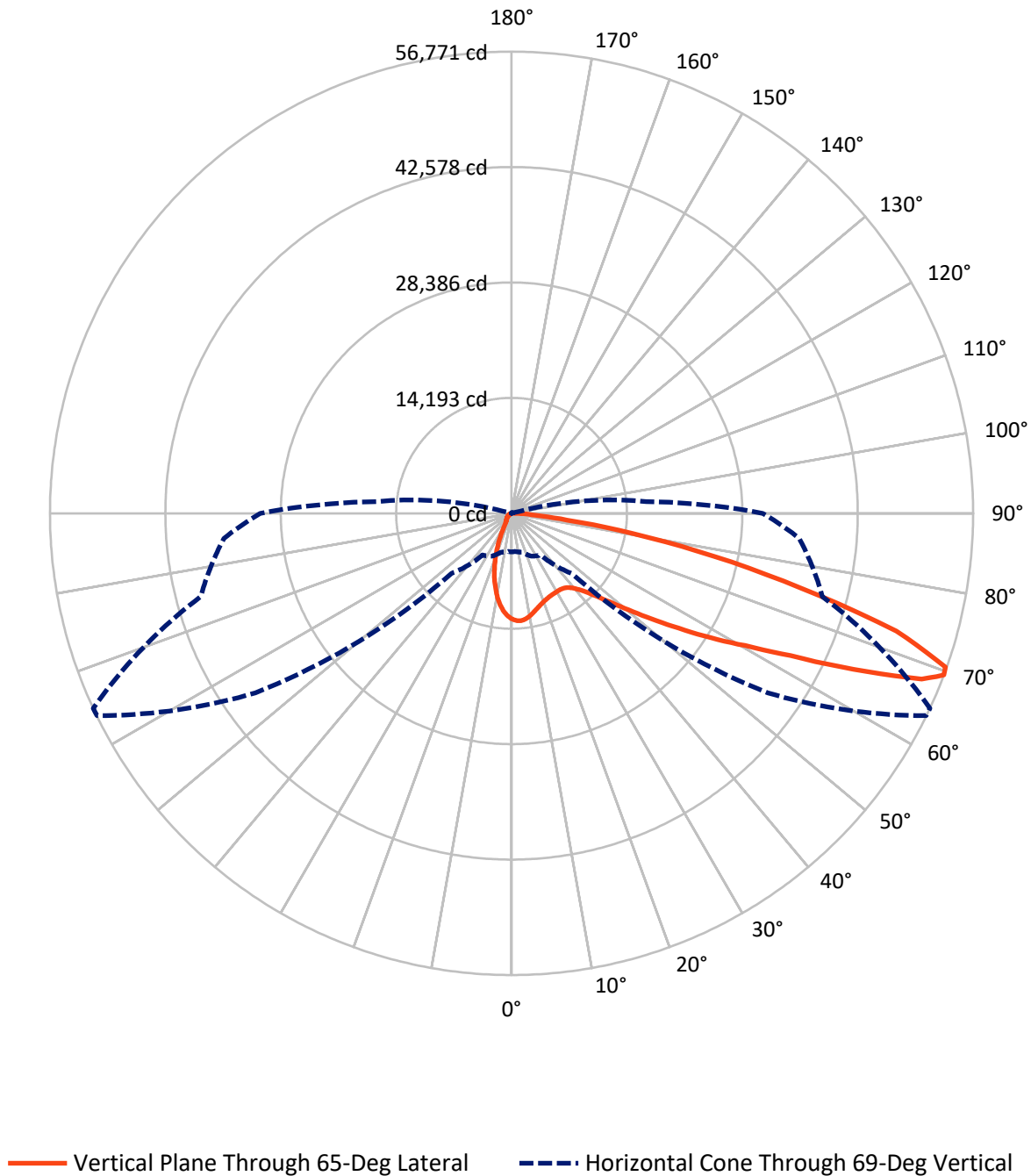
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6071.2	0.0	6071.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	45433.8	0.0	45433.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	51505.0	0.0	51505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.4	2.1
10°-20°	2382.5	4.6
20°-30°	3299.8	6.4
30°-40°	4601.0	8.9
40°-50°	7151.4	13.9
50°-60°	11480.8	22.3
60°-70°	12986.7	25.2
70°-80°	7627.2	14.8
80°-90°	887.2	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°	51505.0	100.0
0°-180°	51505.0	100.0

Coefficient of Utilization



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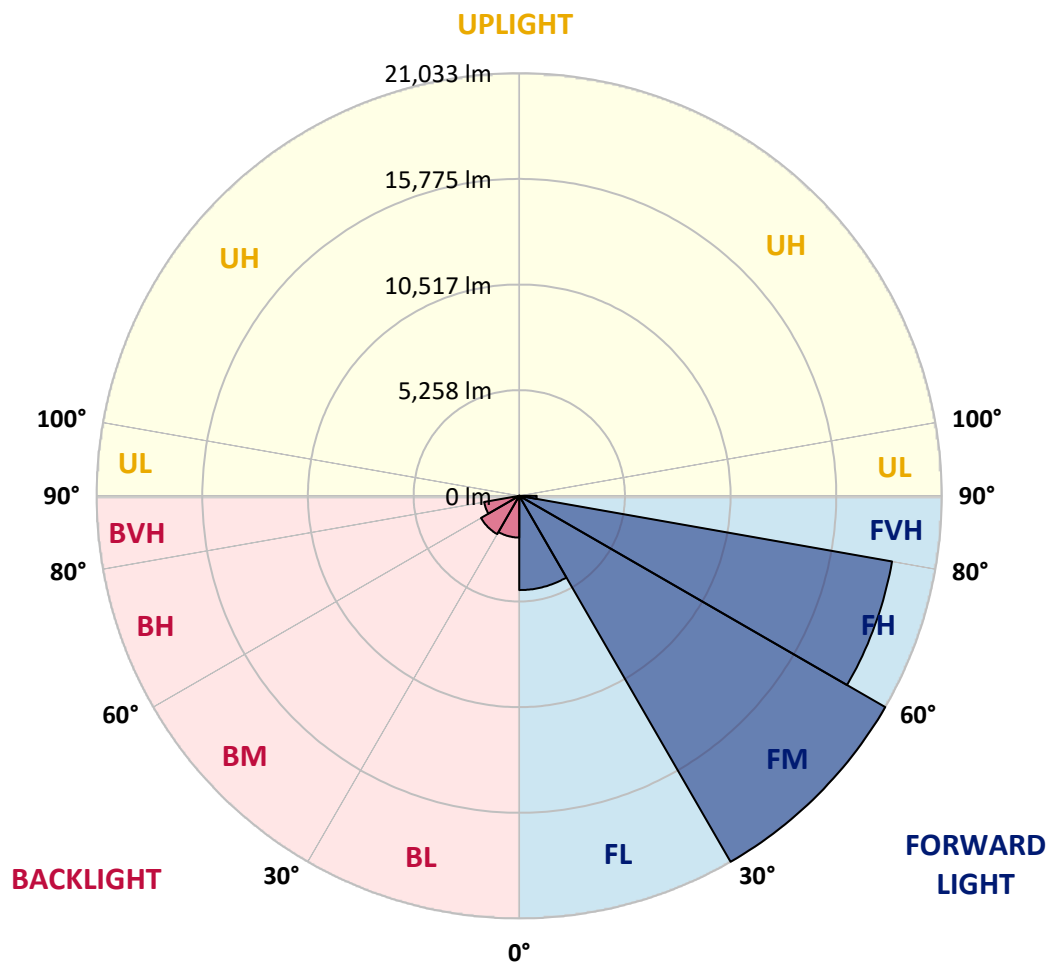
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4693.3	9.1			
FM	(30°-60°)	21033.2	40.8			
FH	(60°-80°)	18840.0	36.6			G5
FVH	(80°-90°)	867.3	1.7			G5
BL	(0°-30°)	2077.3	4.0	B3/2500		
BM	(30°-60°)	2200.1	4.3	B2/2500		
BH	(60°-80°)	1773.9	3.4	B3/2500		G3/2500
BVH	(80°-90°)	20.0	0.0			G1/100
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°	64°	65°	75°	85°
0°	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4
2.5°	13130.9	13098.2	13124.4	13181.0	13209.4	13209.4	13231.2	13205.0	13213.7	13150.5	13059.0
5°	12309.3	12259.2	12331.1	12490.2	12686.3	12854.1	13102.6	13233.3	13246.4	13248.6	13141.8
7.5°	11424.4	11378.7	11485.5	11672.9	11925.7	12237.4	12671.1	13050.3	13072.1	13276.9	13198.5
10°	10705.2	10672.5	10796.8	10997.3	11293.7	11642.4	12174.2	12701.6	12764.8	13218.1	13189.8
12.5°	10134.2	10108.1	10225.8	10456.8	10759.7	11145.5	11701.2	12313.6	12398.6	13085.1	13146.2
15°	9718.0	9713.6	9811.7	10034.0	10369.6	10729.2	11298.0	11954.0	12052.1	12941.3	13139.6
17.5°	9500.0	9506.6	9578.5	9768.1	10055.8	10413.2	10958.0	11651.1	11757.9	12812.7	13172.3
20°	9478.2	9484.8	9524.0	9630.8	9864.0	10180.0	10681.3	11396.1	11507.3	12716.8	13224.6
22.5°	9670.0	9665.7	9676.6	9665.7	9796.4	10036.2	10498.2	11200.0	11328.5	12653.6	13266.0
25°	10038.3	10031.8	10027.4	9946.8	9859.6	9988.2	10421.9	11088.8	11210.9	12607.9	13290.0
27.5°	10550.5	10546.1	10539.6	10406.7	10145.1	10064.5	10430.6	11047.4	11149.8	12570.8	13285.6
30°	11223.9	11254.4	11245.7	11060.5	10652.9	10297.7	10522.2	11025.6	11115.0	12498.9	13239.9
32.5°	12015.1	12076.1	12124.0	11925.7	11415.7	10759.7	10733.6	11049.6	11115.0	12444.4	13157.1
35°	12836.7	12915.2	13091.7	13021.9	12350.7	11455.0	11097.5	11193.4	11247.9	12474.9	13117.8
37.5°	13645.3	13739.0	14122.5	14325.2	13575.5	12374.7	11664.2	11548.7	11577.0	12660.2	13161.4
40°	14584.6	14726.2	15308.1	15635.0	15037.9	13606.0	12512.0	12158.9	12169.8	13067.7	13364.1
42.5°	15818.1	15964.1	16594.0	17106.1	16685.5	15162.1	13662.7	13091.7	13080.8	13830.5	13841.4
45°	17321.9	17474.5	18126.1	18694.9	18505.3	17005.9	15136.0	14453.8	14440.7	15033.5	14745.9
47.5°	19026.2	19176.6	19758.5	20344.7	20549.6	19159.1	17012.4	16312.8	16282.3	16705.1	16142.8
50°	20488.6	20586.7	21122.8	21911.7	22835.8	21804.9	19346.6	18673.1	18640.4	18925.9	18193.7
52.5°	21020.4	21077.0	21621.9	22726.8	25032.6	25387.9	22413.0	21545.6	21521.6	21645.8	20924.5
55°	19943.7	20046.2	20715.2	22354.2	26222.6	29437.2	26283.6	25102.4	24921.5	24653.4	23779.5
57.5°	17010.3	17173.7	17892.9	20072.3	25666.8	32649.7	31971.9	29125.6	28859.7	27220.8	26100.5
60°	12745.2	12945.7	13542.8	15894.4	22700.7	33793.8	38187.5	33608.6	33009.3	29265.0	28234.2
62.5°	8746.0	8846.2	9251.6	10783.7	16718.2	31919.6	43387.6	39612.9	38518.8	31488.0	30542.2
65°	6679.9	6714.7	6880.4	7407.8	9955.5	25928.4	45455.8	47535.0	46212.1	34146.9	32937.3
67.5°	5383.1	5354.8	5583.6	6337.7	6666.8	15818.1	43043.2	55030.0	54411.0	37701.5	35347.8
69°	4746.7	4707.5	4940.7	5816.8	6261.4	10456.8	38479.6	56732.1	56771.3	39578.0	35513.4
70°	4271.6	4297.8	4528.8	5507.4	6124.1	8207.6	34120.8	56298.4	56607.9	40279.8	34519.6
72.5°	2852.8	2922.6	3386.8	4572.4	5888.8	6211.3	20601.9	48310.9	49500.8	38699.7	29615.9
75°	1608.4	1660.7	2212.1	3447.8	5548.8	5914.9	10881.8	35591.9	36742.6	32362.0	22838.0
77.5°	788.9	817.3	1251.0	2225.2	4640.0	5635.9	6172.1	24176.1	25490.3	21122.8	12917.3
80°	333.4	348.7	625.5	1373.0	3317.1	5378.8	4583.3	14878.8	15042.2	8275.2	3441.3
82.5°	128.6	132.9	263.7	856.5	2107.5	4193.2	3833.6	7054.7	6884.7	1558.3	784.6
85°	15.3	17.4	95.9	514.3	1172.5	2157.6	3114.4	3040.3	2813.6	309.5	403.2
87.5°	0.0	0.0	6.5	156.9	348.7	1011.2	1619.3	1261.9	1137.6	100.3	209.2
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°	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4	13015.4
2.5°	12982.7	12960.9	12843.2	12673.2	12512.0	12311.5	12119.7	12004.2	11912.6	11851.6	11923.5
5°	13017.6	12921.7	12564.3	12106.6	11657.6	11152.0	10681.3	10282.4	10125.5	9951.2	10029.6
7.5°	13006.7	12825.8	12182.9	11367.8	10544.0	9691.8	8885.4	8264.3	7941.8	7625.7	7706.4
10°	12952.2	12647.1	11672.9	10465.5	9232.0	8007.1	6862.9	5993.4	5507.4	5067.1	5130.3
12.5°	12832.3	12407.3	11071.4	9432.5	7782.7	6167.7	4827.4	3713.7	3116.5	2852.8	2885.5
15°	12760.4	12174.2	10435.0	8386.3	6235.3	4295.6	2950.9	2194.7	1922.2	1835.1	1846.0
17.5°	12725.5	11949.7	9776.8	7189.9	4653.0	2735.2	1907.0	1682.5	1623.7	1608.4	1612.8
20°	12690.7	11723.0	9099.0	6006.4	3205.9	1839.4	1567.0	1501.6	1479.8	1460.2	1464.6
22.5°	12631.8	11505.1	8371.1	4807.8	2162.0	1492.9	1412.3	1349.1	1303.3	1279.3	1283.7
25°	12559.9	11276.2	7627.9	3580.8	1577.9	1331.6	1255.3	1166.0	1111.5	1067.9	1070.1
27.5°	12444.4	10995.1	6860.8	2606.6	1325.1	1192.1	1089.7	991.6	900.1	850.0	850.0
30°	12283.1	10676.9	6008.6	1865.6	1187.8	1054.8	930.6	808.6	710.5	664.7	660.4
32.5°	12104.4	10345.6	5147.8	1414.4	1078.8	926.2	784.6	656.0	568.8	531.8	529.6
35°	11951.9	9988.2	4289.1	1185.6	969.8	802.0	647.3	538.3	468.6	438.1	435.9
37.5°	11853.8	9630.8	3452.2	1059.2	871.8	686.5	542.7	444.6	394.5	370.5	368.3
40°	11838.5	9364.9	2687.2	963.3	780.2	584.1	453.3	377.0	331.3	305.1	302.9
42.5°	12036.9	9212.3	2061.7	882.7	686.5	494.7	385.8	322.6	274.6	248.5	246.3
45°	12557.7	9260.3	1586.6	810.7	592.8	418.4	326.9	268.1	224.5	204.9	200.5
47.5°	13507.9	9591.6	1261.9	738.8	503.4	355.2	279.0	222.3	185.2	165.6	163.5
50°	15199.2	10369.6	1054.8	660.4	420.6	302.9	231.0	180.9	150.4	132.9	130.8
52.5°	17444.0	11755.7	941.5	584.1	348.7	257.2	189.6	143.8	117.7	104.6	102.4
55°	19919.8	13433.8	867.4	501.3	285.5	213.6	150.4	113.3	91.5	80.6	76.3
57.5°	22336.7	14887.5	797.7	420.6	237.6	174.4	119.9	89.4	71.9	61.0	58.8
60°	24557.5	16223.5	717.0	337.8	194.0	137.3	93.7	69.7	56.7	45.8	45.8
62.5°	26935.3	17256.5	605.9	263.7	159.1	104.6	76.3	63.2	45.8	39.2	37.0
65°	29454.7	18023.7	475.1	204.9	124.2	78.5	63.2	65.4	37.0	28.3	26.2
67.5°	31315.9	17871.1	350.9	161.3	95.9	61.0	61.0	69.7	32.7	21.8	19.6
69°	30906.1	16631.0	294.2	139.5	82.8	52.3	56.7	69.7	30.5	19.6	17.4
70°	29718.4	15258.0	259.3	124.2	74.1	47.9	54.5	67.6	28.3	19.6	17.4
72.5°	24749.3	11492.0	202.7	93.7	58.8	39.2	45.8	58.8	28.3	19.6	15.3
75°	18616.5	7355.5	154.7	67.6	43.6	30.5	34.9	43.6	28.3	17.4	15.3
77.5°	10129.9	2652.3	111.1	45.8	30.5	24.0	24.0	32.7	26.2	13.1	8.7
80°	2604.4	666.9	69.7	30.5	24.0	17.4	15.3	21.8	15.3	2.2	0.0
82.5°	642.9	150.4	37.0	21.8	17.4	6.5	6.5	10.9	6.5	0.0	0.0
85°	353.1	74.1	24.0	15.3	8.7	0.0	0.0	2.2	0.0	0.0	0.0
87.5°	180.9	21.8	6.5	4.4	2.2	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)