

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640830

Luminaire Tested: GWS-SA5E-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38568.3 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

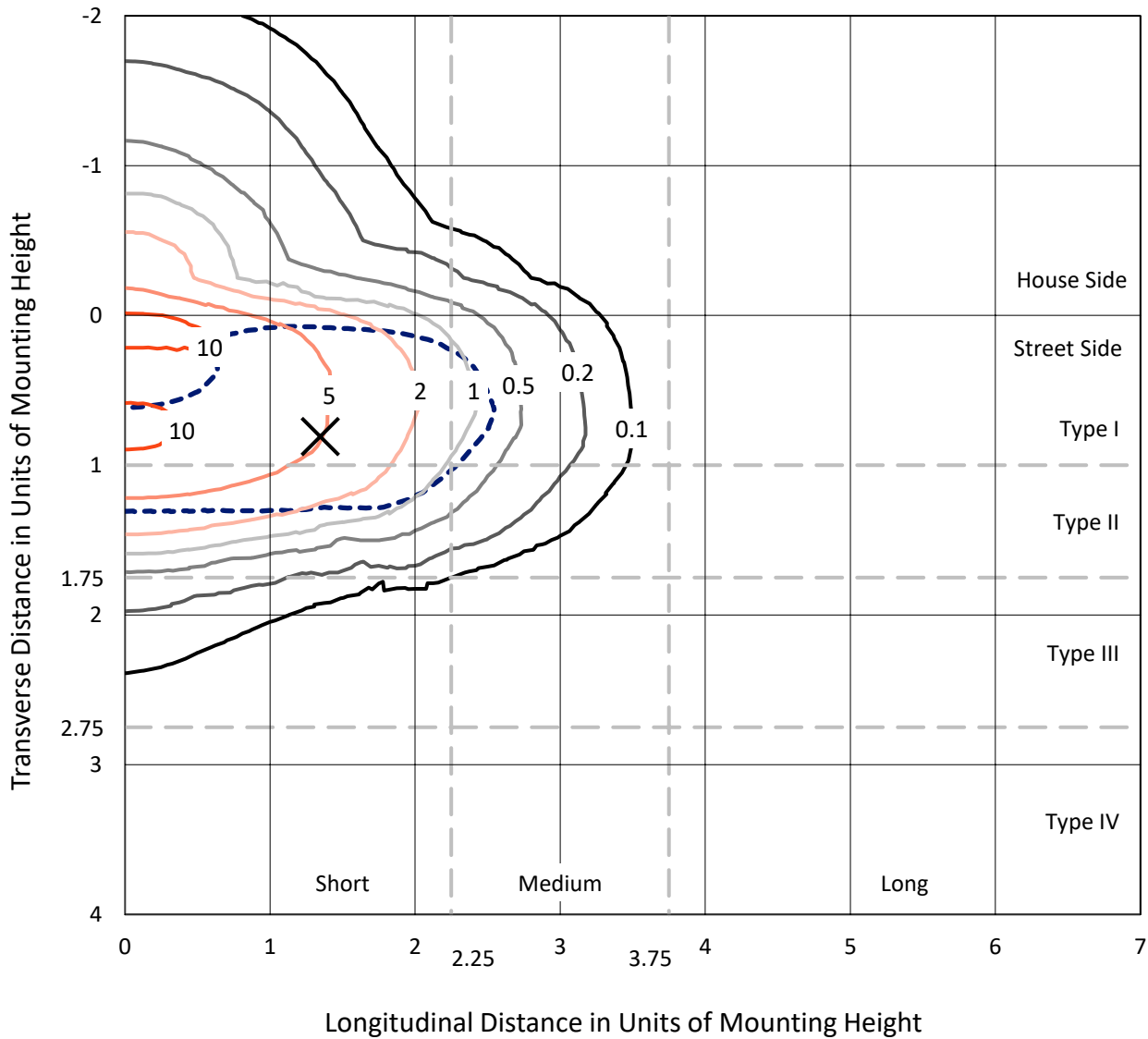
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

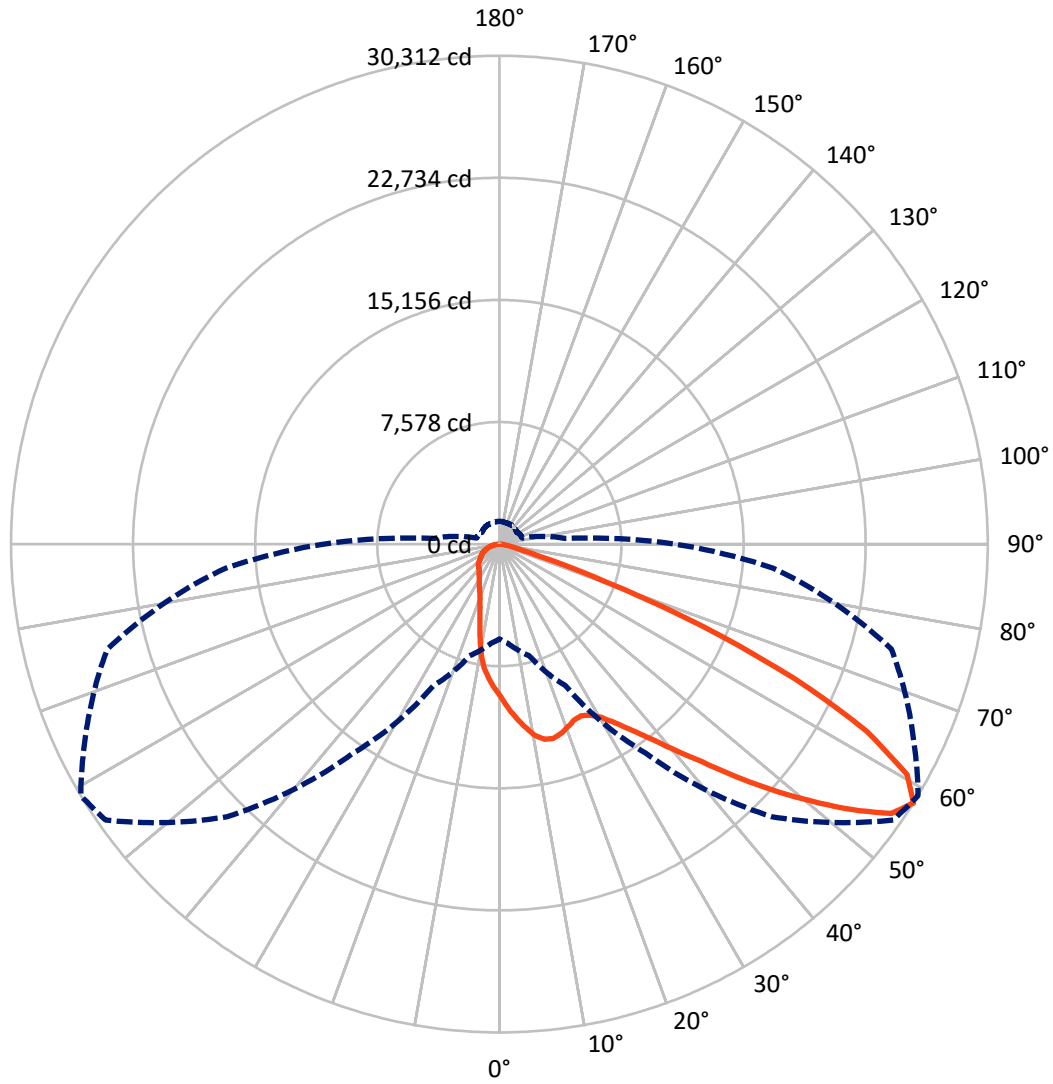
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5985.6	0.0	5985.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	32582.7	0.0	32582.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	38568.3	0.0	38568.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.1	2.3
10°-20°	2227.6	5.8
20°-30°	3611.0	9.4
30°-40°	5808.8	15.1
40°-50°	9020.5	23.4
50°-60°	9716.3	25.2
60°-70°	5639.0	14.6
70°-80°	1472.1	3.8
80°-90°	193.9	0.5
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°	38568.3	100.0
0°-180°	38568.3	100.0

Coefficient of Utilization



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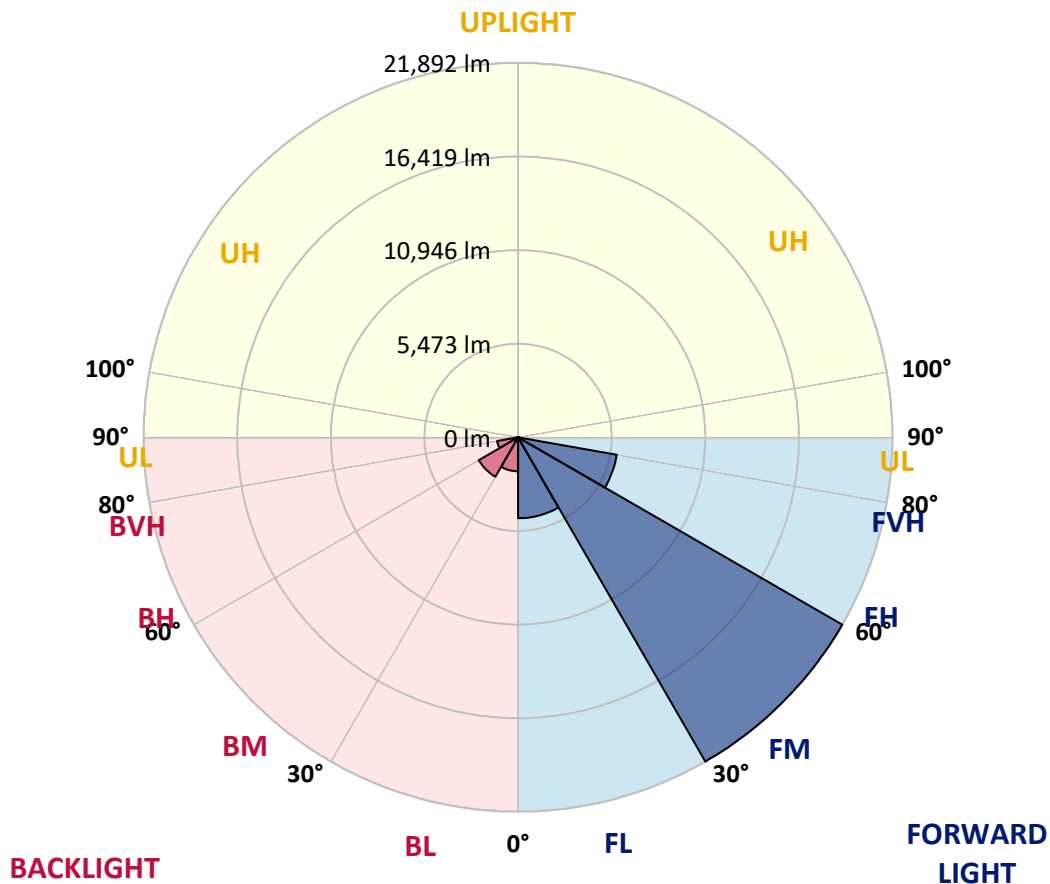
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4732.0	12.3			
FM (30°-60°)	21891.8	56.8			
FH (60°-80°)	5866.1	15.2			G3/7500
FVH (80°-90°)	92.8	0.2			G1/100
BL (0°-30°)	1985.8	5.1	B3/2500		
BM (30°-60°)	2653.8	6.9	B3/5000		
BH (60°-80°)	1245.0	3.2	B3/2500		G3/2500
BVH (80°-90°)	101.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7
2.5°	10738.4	10648.8	10711.3	10600.0	10553.8	10431.6	10274.1	10168.3	10005.3	9793.6	9608.9
5°	11805.5	11743.0	11756.6	11637.2	11531.3	11327.6	11004.5	10825.3	10548.4	10122.1	9725.7
7.5°	11772.9	11846.2	11886.9	11990.1	12020.0	12001.0	11710.5	11460.7	11156.6	10515.8	9918.5
10°	10553.8	10692.3	10817.2	11170.1	11599.1	12142.2	12210.1	12060.7	11753.9	11018.1	10149.3
12.5°	9226.1	9332.0	9443.3	9866.9	10523.9	11610.0	12345.8	12438.1	12315.9	11515.0	10409.9
15°	8574.5	8623.3	8729.2	9008.9	9532.9	10738.4	12109.6	12514.2	12734.1	12041.7	10703.1
17.5°	8547.3	8569.0	8620.6	8770.0	9133.8	10065.1	11683.3	12362.1	13062.6	12598.3	11045.3
20°	9109.3	9052.3	9019.7	9017.0	9196.2	9839.7	11270.6	12117.7	13217.4	13168.5	11411.8
22.5°	9888.6	9907.6	9837.0	9663.2	9641.5	9999.9	11064.3	11870.7	13263.5	13673.5	11751.2
25°	10993.7	11088.7	10879.6	10548.4	10385.5	10464.2	11191.9	11794.6	13258.1	14094.4	11963.0
27.5°	12283.4	12356.7	12144.9	11710.5	11373.8	11183.7	11572.0	12020.0	13304.3	14458.2	12090.6
30°	13752.3	13776.7	13486.2	13030.0	12538.6	12131.3	12204.6	12484.3	13540.5	14936.1	12239.9
32.5°	15547.0	15650.2	15210.3	14488.1	13801.1	13279.8	13054.5	13233.7	14050.9	15500.8	12470.7
35°	17825.0	17860.3	17301.0	16266.5	15294.5	14572.2	14099.8	14194.8	14827.5	16290.9	12818.2
37.5°	19972.7	20008.0	19413.4	18452.2	17062.0	16073.7	15389.5	15346.1	15821.2	17406.9	13385.7
40°	21335.7	21436.2	21170.1	20567.3	19239.6	17906.4	16977.9	16828.5	17124.5	18772.6	14175.8
42.5°	22068.8	22112.2	22106.8	22185.5	21395.4	20070.4	18769.9	18471.2	18669.4	20246.9	14974.1
45°	22074.2	22182.8	22473.3	23230.9	23266.2	22440.8	21034.3	20567.3	20385.4	21732.1	15807.6
47.5°	21085.9	21202.6	22000.9	23491.5	24591.2	24778.5	23746.7	22810.0	22044.3	23010.9	16491.9
50°	18093.8	18387.0	19907.5	22543.9	24851.8	26652.0	26334.3	25063.6	23518.7	23999.3	16920.8
52.5°	15495.4	15484.5	16421.3	19866.8	23763.0	27477.4	28837.7	27382.3	24976.7	24626.5	17029.5
55°	11346.6	11409.1	12367.5	15194.0	20857.8	26679.1	30214.2	29516.5	26649.2	24960.4	16986.0
57.5°	5883.7	6193.3	7176.2	9695.8	15848.4	23931.4	29847.7	30312.0	28348.9	25196.6	17043.0
60°	2973.1	2913.4	3266.3	4629.3	9182.7	18691.1	27588.7	29068.5	28655.7	25381.3	17078.3
62.5°	1984.8	1968.5	1870.7	2145.0	3752.3	11069.7	23518.7	25593.1	26524.4	24946.8	16627.6
65°	1718.7	1686.1	1506.9	1496.1	1821.9	4591.3	17238.5	20119.3	21922.2	23016.4	15549.7
67.5°	1547.6	1498.8	1316.9	1227.3	1308.7	2017.4	9714.8	13494.3	16187.8	19464.9	13187.5
70°	1382.0	1357.6	1175.7	1045.3	1037.2	1230.0	3578.6	6964.4	9904.9	13279.8	9641.5
72.5°	1238.1	1194.7	1039.9	915.0	852.6	871.6	1553.1	2682.6	5126.2	8283.9	5767.0
75°	1072.5	1039.9	904.1	779.2	703.2	638.1	947.6	1240.8	2337.7	3937.0	2723.3
77.5°	828.1	806.4	714.1	619.1	575.6	475.2	575.6	782.0	1080.6	1659.0	1417.3
80°	480.6	494.2	532.2	483.3	423.6	339.4	374.7	450.7	648.9	898.7	803.7
82.5°	241.6	257.9	344.8	279.7	252.5	198.2	222.6	266.1	339.4	496.9	315.0
85°	19.0	19.0	62.4	70.6	86.9	70.6	89.6	108.6	154.8	198.2	105.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	13.6	24.4	46.2	29.9
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°	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7	9467.7
2.5°	9484.0	9345.6	9179.9	9044.2	8835.1	8723.8	8582.6	8408.8	8338.2	8305.7	8286.7
5°	9503.0	9258.7	8905.7	8579.9	8218.8	7933.7	7616.0	7284.8	7094.7	7048.5	7016.0
7.5°	9573.6	9231.5	8669.5	8131.9	7461.2	6839.5	6234.0	5633.9	5327.1	5210.4	5199.5
10°	9671.4	9220.7	8430.6	7537.3	6405.1	5422.2	4713.5	4243.8	4045.6	3980.4	3958.7
12.5°	9793.6	9212.5	8115.6	6711.9	5185.9	4257.4	3852.8	3776.8	3803.9	3798.5	3798.5
15°	9948.3	9223.4	7735.5	5777.9	4194.9	3695.3	3703.5	3793.1	3877.2	3890.8	3890.8
17.5°	10116.7	9212.5	7184.3	4841.1	3600.3	3562.3	3687.2	3812.1	3888.1	3899.0	3899.0
20°	10298.6	9160.9	6489.2	3958.7	3339.6	3478.1	3613.9	3711.6	3757.8	3768.6	3768.6
22.5°	10407.2	9014.3	5734.4	3350.5	3174.0	3345.1	3434.7	3535.1	3540.6	3453.7	3451.0
25°	10390.9	8740.1	4873.7	2959.5	2997.5	3146.9	3260.9	3190.3	3103.4	3054.5	3046.4
27.5°	10287.7	8327.4	3996.7	2663.6	2788.5	2956.8	2921.5	2861.8	2840.1	2785.7	2780.3
30°	10157.4	7819.6	3209.3	2432.8	2571.3	2726.0	2671.7	2666.3	2644.6	2584.8	2584.8
32.5°	10032.5	7295.6	2614.7	2261.7	2432.8	2443.6	2519.7	2525.1	2514.2	2411.1	2400.2
35°	9997.2	6771.6	2212.9	2126.0	2297.0	2291.6	2400.2	2397.5	2210.1	2066.2	2063.5
37.5°	10103.1	6239.4	1973.9	2014.6	2109.7	2180.3	2267.2	2109.7	2047.2	1960.3	1954.9
40°	10328.5	5748.0	1851.7	1949.5	1990.2	2093.4	1957.6	1968.5	1952.2	1887.0	1878.9
42.5°	10627.1	5329.8	1783.9	1927.8	1922.3	1949.5	1800.1	1843.6	1868.0	1819.2	1811.0
45°	10914.9	4966.0	1748.6	1846.3	1873.5	1716.0	1686.1	1726.8	1764.9	1745.8	1737.7
47.5°	11126.7	4651.1	1729.6	1735.0	1811.0	1637.2	1588.4	1607.4	1653.5	1661.7	1659.0
50°	11191.9	4382.3	1707.8	1642.7	1626.4	1558.5	1520.5	1515.1	1569.4	1607.4	1612.8
52.5°	11067.0	4143.3	1650.8	1561.2	1482.5	1493.3	1479.8	1452.6	1506.9	1558.5	1563.9
55°	10882.3	4007.6	1561.2	1482.5	1390.2	1433.6	1439.0	1414.6	1449.9	1485.2	1485.2
57.5°	10895.9	4086.3	1474.3	1409.2	1308.7	1365.7	1395.6	1384.7	1384.7	1411.9	1414.6
60°	10985.5	4200.3	1417.3	1316.9	1227.3	1287.0	1354.9	1344.0	1319.6	1354.9	1354.9
62.5°	10727.6	4048.3	1379.3	1227.3	1140.4	1211.0	1292.4	1287.0	1259.8	1316.9	1322.3
65°	9967.3	3641.0	1335.9	1115.9	1053.5	1134.9	1205.5	1224.5	1200.1	1276.1	1289.7
67.5°	8354.5	3062.7	1251.7	1010.0	966.6	1042.6	1110.5	1137.7	1118.6	1208.2	1219.1
70°	6228.6	2478.9	1118.6	893.3	860.7	928.6	991.0	1001.9	1004.6	1110.5	1121.4
72.5°	3972.3	1927.8	942.2	763.0	738.5	790.1	836.3	879.7	898.7	999.2	996.5
75°	2215.6	1433.6	757.5	646.2	602.8	643.5	697.8	749.4	803.7	950.3	966.6
77.5°	1276.1	1007.3	600.0	518.6	467.0	510.4	556.6	629.9	792.8	920.4	904.1
80°	719.5	654.4	453.4	380.1	347.5	380.1	415.4	553.9	624.5	678.8	686.9
82.5°	336.7	366.5	309.5	233.5	233.5	255.2	287.8	429.0	472.4	385.6	336.7
85°	122.2	165.6	152.0	119.5	105.9	103.2	179.2	244.4	152.0	135.8	116.8
87.5°	32.6	46.2	43.4	29.9	16.3	13.6	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)