

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: P643193

Luminaire Tested: GWS-SA6E-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40610.4 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

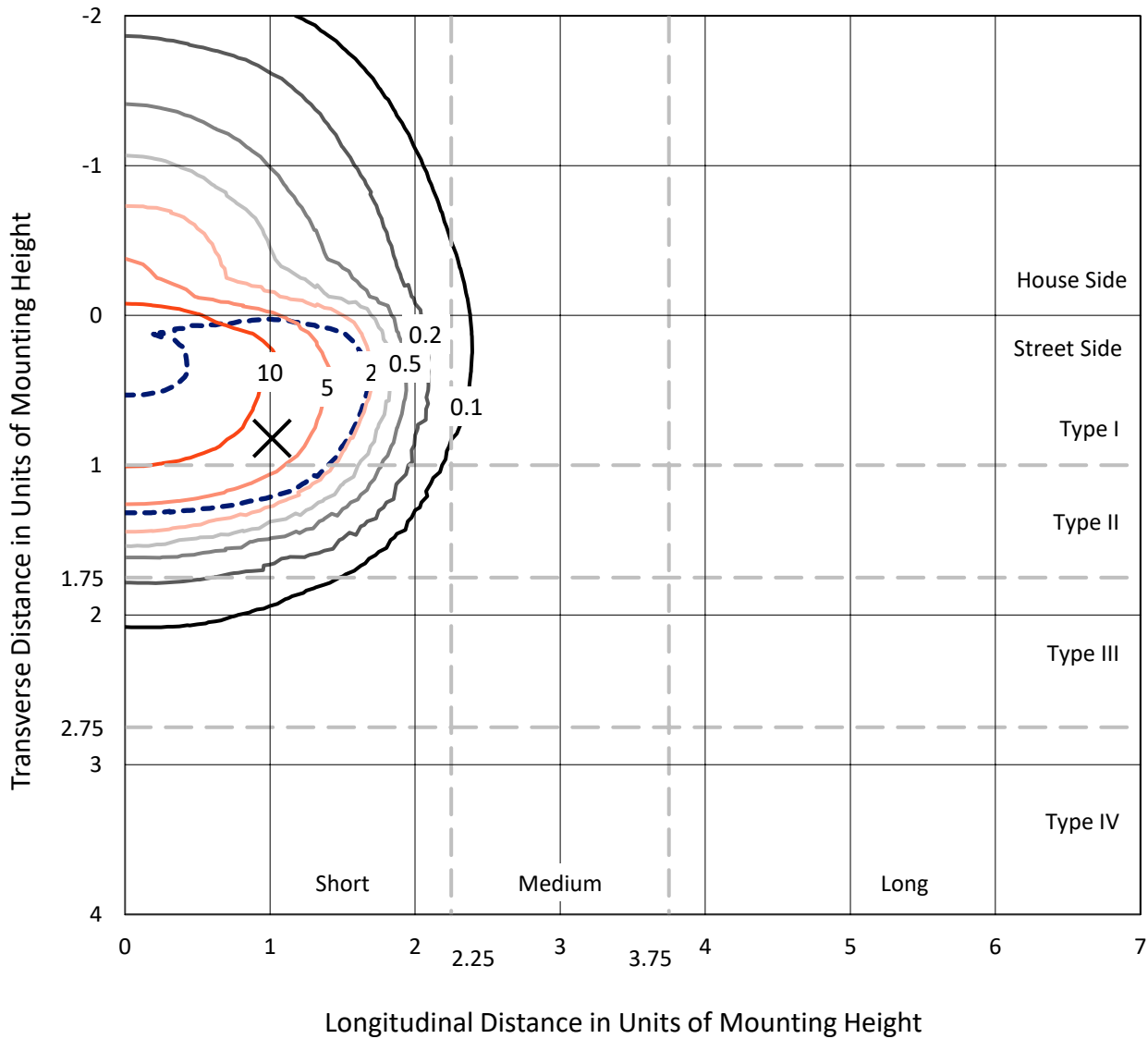
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

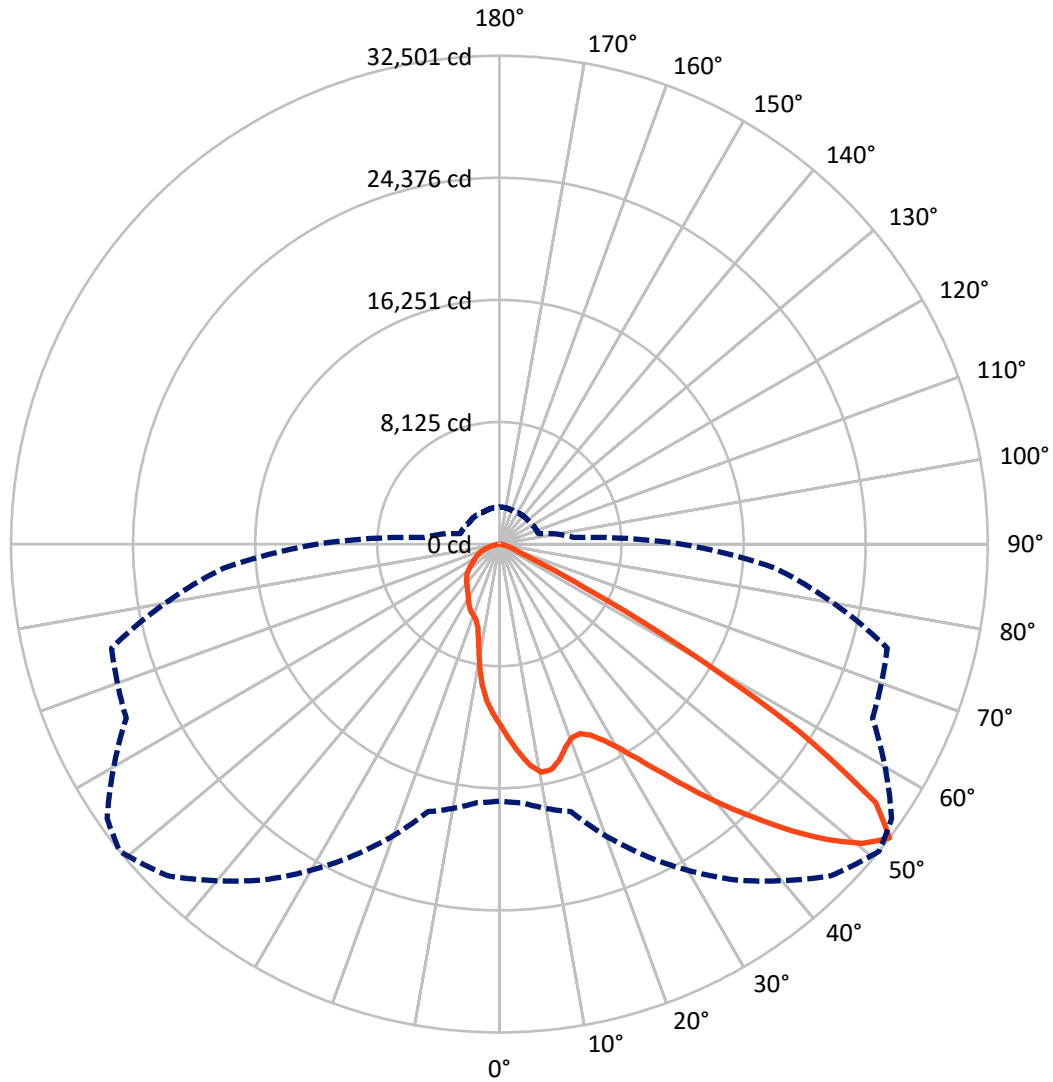
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7912.6	0.0	7912.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32697.8	0.0	32697.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	40610.4	0.0	40610.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1128.3	2.8
10°-20°	2931.8	7.2
20°-30°	4766.9	11.7
30°-40°	7554.5	18.6
40°-50°	11393.9	28.1
50°-60°	9856.6	24.3
60°-70°	2234.6	5.5
70°-80°	658.9	1.6
80°-90°	84.9	0.2
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°	40610.4	100.0
0°-180°	40610.4	100.0

Coefficient of Utilization



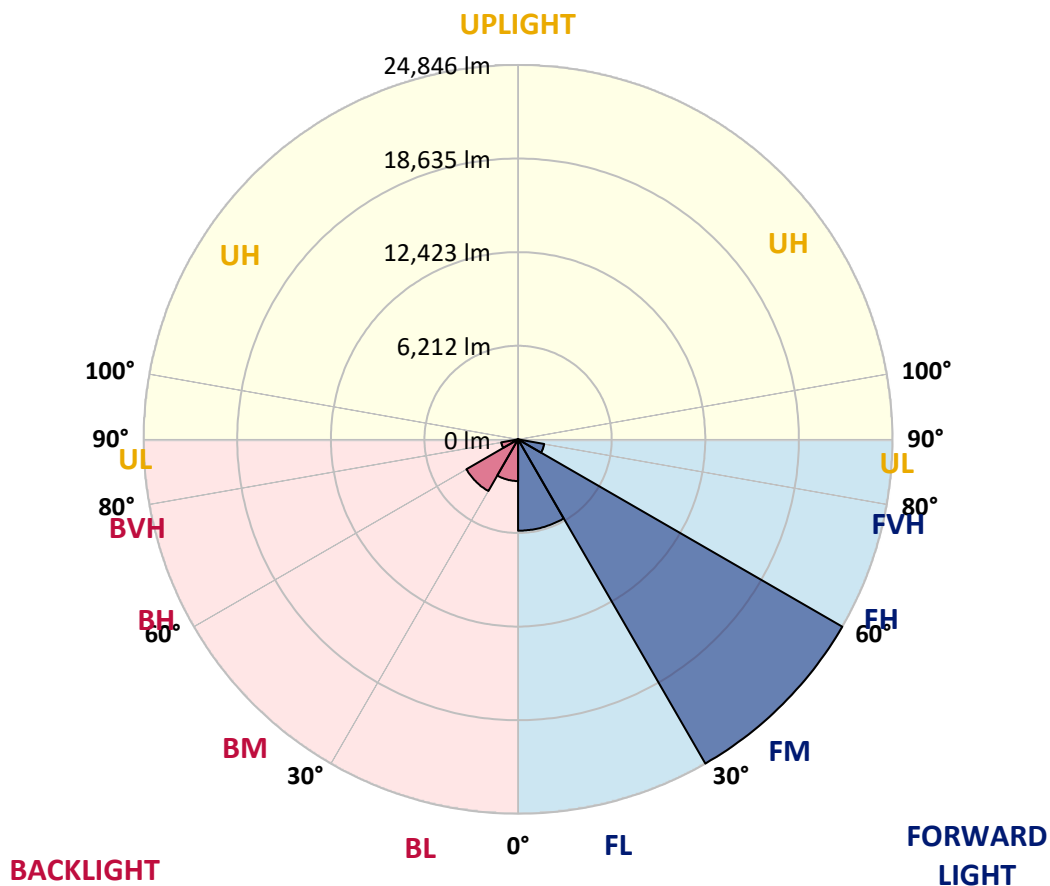
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6061.2	14.9			
FM (30°-60°)	24846.0	61.2			
FH (60°-80°)	1758.6	4.3			G1/1800
FVH (80°-90°)	32.0	0.1			G1/100
BL (0°-30°)	2765.9	6.8	B4/5000		
BM (30°-60°)	3958.9	9.7	B3/5000		
BH (60°-80°)	1134.9	2.8	B3/2500		G3/2500
BVH (80°-90°)	52.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7
2.5°	13474.8	13551.9	13433.1	13388.2	13314.4	13186.0	13038.4	12996.7	12679.0	12470.4	12236.1
5°	14829.1	14870.8	14774.5	14678.2	14495.3	14267.5	13981.9	13920.9	13343.3	12865.1	12367.7
7.5°	15130.7	15114.7	15198.1	15252.7	15230.2	15140.4	14886.8	14768.1	14078.2	13320.8	12585.9
10°	13937.0	13847.1	14155.2	14521.0	14960.6	15467.7	15438.8	15429.2	14829.1	13933.7	12865.1
12.5°	12354.9	12310.0	12560.3	13019.2	13850.3	14973.5	15393.9	15721.2	15506.2	14517.8	13176.4
15°	11449.9	11433.9	11604.0	11934.5	12595.6	14014.0	14912.5	15560.7	16087.0	15143.6	13506.9
17.5°	11286.3	11295.9	11353.7	11543.0	12017.9	13186.0	14225.8	15130.7	16539.5	15830.3	13920.9
20°	11764.4	11828.6	11729.1	11758.0	12014.7	12887.6	13757.2	14697.5	16828.3	16520.2	14367.0
22.5°	12826.6	12804.2	12585.9	12457.6	12460.8	13070.5	13705.9	14495.3	17017.7	17190.9	14771.3
25°	14030.0	14004.3	13744.4	13458.8	13279.1	13567.9	14074.9	14710.3	17187.7	17803.9	15095.4
27.5°	15451.6	15371.4	15082.6	14716.8	14318.8	14444.0	14787.4	15291.2	17450.9	18407.2	15310.4
30°	16828.3	16921.4	16507.4	16074.2	15653.8	15576.8	15775.7	16231.4	17986.8	19113.2	15567.2
32.5°	18654.3	18622.2	18163.3	17598.5	16998.4	16940.6	17097.9	17515.1	18949.5	20088.7	15958.7
35°	20865.3	20871.7	20220.3	19456.5	18602.9	18448.9	18712.0	19116.4	20384.0	21410.9	16578.0
37.5°	23163.0	23153.4	22585.4	21718.9	20554.0	20335.8	20637.5	20939.1	22177.8	23211.1	17540.7
40°	24774.0	24838.1	24571.8	24116.1	23012.2	22479.5	22745.8	22954.4	24128.9	25329.1	18808.3
42.5°	25688.5	25784.8	25842.6	26115.3	25534.5	24966.5	24870.2	24979.3	25871.5	27296.3	19998.9
45°	25884.3	26012.6	26433.0	27443.9	27668.5	27508.1	27193.6	26930.4	27171.1	28692.2	20778.7
47.5°	25021.0	25245.7	26144.2	27912.4	29224.9	29728.7	29379.0	28977.8	27922.0	29051.6	20698.4
50°	21600.2	21863.3	23888.3	26956.1	29446.3	31281.9	31314.0	30720.3	27832.2	28015.1	19690.8
52.5°	17101.1	17280.8	18439.3	22851.7	27273.8	31217.7	32501.4	31866.0	27399.0	26718.6	18429.6
55°	10220.9	10509.7	11591.1	15076.2	21247.2	27668.5	30402.6	30710.7	27187.2	25630.8	17569.6
57.5°	3449.7	3590.9	4624.3	6658.8	12521.8	20258.8	23490.3	24741.9	24680.9	23968.5	15891.3
60°	1643.0	1675.1	1883.7	2525.5	5012.6	10586.7	13904.9	15348.9	16664.7	16796.2	9887.1
62.5°	1251.5	1270.8	1376.7	1514.7	2015.3	4460.6	6373.2	7477.1	7987.4	6854.6	3600.6
65°	1046.2	1062.2	1142.4	1229.1	1370.3	1931.9	2445.3	2820.8	2541.6	1980.0	1716.8
67.5°	872.9	885.7	946.7	1039.7	1136.0	1293.3	1357.4	1395.9	1463.3	1643.0	1578.9
70°	683.5	696.4	760.5	840.8	933.8	972.3	1033.3	1071.8	1206.6	1437.7	1431.2
72.5°	526.3	542.3	577.6	629.0	706.0	744.5	811.9	856.8	933.8	1120.0	1197.0
75°	385.1	394.7	426.8	442.9	452.5	442.9	510.2	561.6	664.3	734.9	754.1
77.5°	157.2	176.5	170.1	170.1	202.2	243.9	279.2	311.3	381.9	423.6	426.8
80°	64.2	70.6	83.4	93.1	112.3	144.4	166.9	179.7	211.8	237.5	256.7
82.5°	38.5	41.7	48.1	51.3	64.2	83.4	96.3	105.9	131.6	157.2	166.9
85°	19.3	19.3	22.5	25.7	32.1	38.5	44.9	51.3	67.4	83.4	93.1
87.5°	3.2	3.2	3.2	6.4	9.6	12.8	16.0	19.3	22.5	25.7	32.1
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°	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7	12091.7
2.5°	12098.2	11924.9	11722.7	11562.2	11376.1	11238.1	11042.4	10920.4	10804.9	10708.6	10638.0
5°	12111.0	11819.0	11398.6	11026.3	10641.2	10275.4	9900.0	9595.1	9322.3	9094.5	9075.2
7.5°	12184.8	11764.4	11106.6	10455.1	9704.2	8979.0	8253.7	7663.2	7214.0	6979.7	6931.6
10°	12310.0	11758.0	10808.1	9768.4	8488.0	7319.9	6459.8	6010.6	5750.6	5657.6	5625.5
12.5°	12441.5	11742.0	10426.2	8799.2	7021.4	5997.7	5526.0	5471.4	5519.6	5526.0	5522.8
15°	12602.0	11732.3	9944.9	7663.2	5949.6	5384.8	5416.9	5532.4	5644.7	5670.4	5670.4
17.5°	12797.7	11709.9	9290.2	6552.9	5278.9	5266.1	5436.1	5590.2	5696.1	5715.3	5715.3
20°	13003.1	11652.1	8484.8	5647.9	5006.1	5192.3	5375.2	5493.9	5567.7	5593.4	5596.6
22.5°	13144.3	11498.1	7557.3	4977.3	4836.1	5051.1	5182.6	5304.6	5304.6	5240.4	5221.1
25°	13173.2	11167.5	6552.9	4518.4	4633.9	4832.8	4967.6	4897.0	4765.5	4714.1	4710.9
27.5°	13067.3	10686.2	5561.3	4191.0	4390.0	4589.0	4566.5	4463.8	4406.0	4354.7	4374.0
30°	12938.9	10108.5	4701.3	3921.5	4107.6	4303.4	4226.3	4191.0	4149.3	4091.6	4104.4
32.5°	12852.3	9463.5	4040.2	3712.9	3918.3	3950.4	4004.9	4001.7	3963.2	3854.1	3847.7
35°	12878.0	8812.1	3597.4	3542.8	3761.0	3748.2	3850.9	3831.6	3565.3	3414.4	3404.8
37.5°	13083.3	8186.3	3337.4	3408.0	3510.7	3590.9	3680.8	3449.7	3356.7	3260.4	3266.8
40°	13474.8	7605.5	3196.2	3334.2	3359.9	3478.6	3270.0	3266.8	3225.1	3138.5	3135.3
42.5°	13917.7	7114.5	3100.0	3298.9	3263.6	3286.1	3064.7	3090.3	3087.1	3032.6	3016.5
45°	14187.3	6662.0	3022.9	3167.3	3177.0	2952.3	2884.9	2913.8	2929.9	2901.0	2897.8
47.5°	13908.1	6142.1	2942.7	2965.2	3048.6	2801.5	2718.1	2721.3	2750.2	2753.4	2740.5
50°	13125.1	5561.3	2846.4	2791.9	2737.3	2644.3	2567.2	2551.2	2580.1	2609.0	2618.6
52.5°	12114.2	5006.1	2686.0	2602.5	2474.2	2474.2	2438.9	2387.5	2426.1	2464.6	2477.4
55°	11372.9	4595.4	2458.1	2365.1	2223.9	2272.0	2265.6	2220.7	2272.0	2300.9	2310.5
57.5°	9855.0	3693.6	2162.9	2134.0	2015.3	2073.1	2085.9	2028.1	2002.5	2008.9	2018.5
60°	5850.1	2384.3	1951.1	1947.9	1842.0	1909.4	1947.9	1890.1	1813.1	1822.7	1835.6
62.5°	2625.0	1822.7	1684.8	1671.9	1668.7	1755.4	1797.1	1742.5	1633.4	1643.0	1655.9
65°	1652.7	1575.6	1463.3	1463.3	1514.7	1588.5	1620.6	1575.6	1450.5	1434.5	1447.3
67.5°	1533.9	1466.5	1351.0	1328.6	1354.2	1415.2	1418.4	1331.8	1258.0	1245.1	1245.1
70°	1376.7	1325.3	1213.0	1168.1	1158.5	1155.3	1145.6	1123.2	1075.0	1062.2	1068.6
72.5°	1139.2	1103.9	1033.3	985.2	959.5	956.3	917.8	898.5	856.8	850.4	847.2
75°	754.1	763.8	763.8	757.3	734.9	725.2	683.5	664.3	616.1	596.9	593.7
77.5°	446.1	455.7	468.5	471.7	468.5	468.5	430.0	407.6	359.4	333.7	327.3
80°	272.8	279.2	285.6	295.2	282.4	272.8	237.5	215.0	192.5	176.5	173.3
82.5°	176.5	182.9	186.1	192.5	186.1	173.3	144.4	131.6	115.5	102.7	99.5
85°	99.5	102.7	109.1	109.1	99.5	89.9	73.8	64.2	54.6	48.1	48.1
87.5°	35.3	35.3	35.3	38.5	32.1	28.9	19.3	12.8	9.6	9.6	9.6
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)