

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: P638034

Luminaire Tested: GWS-SA4E-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18877.6 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

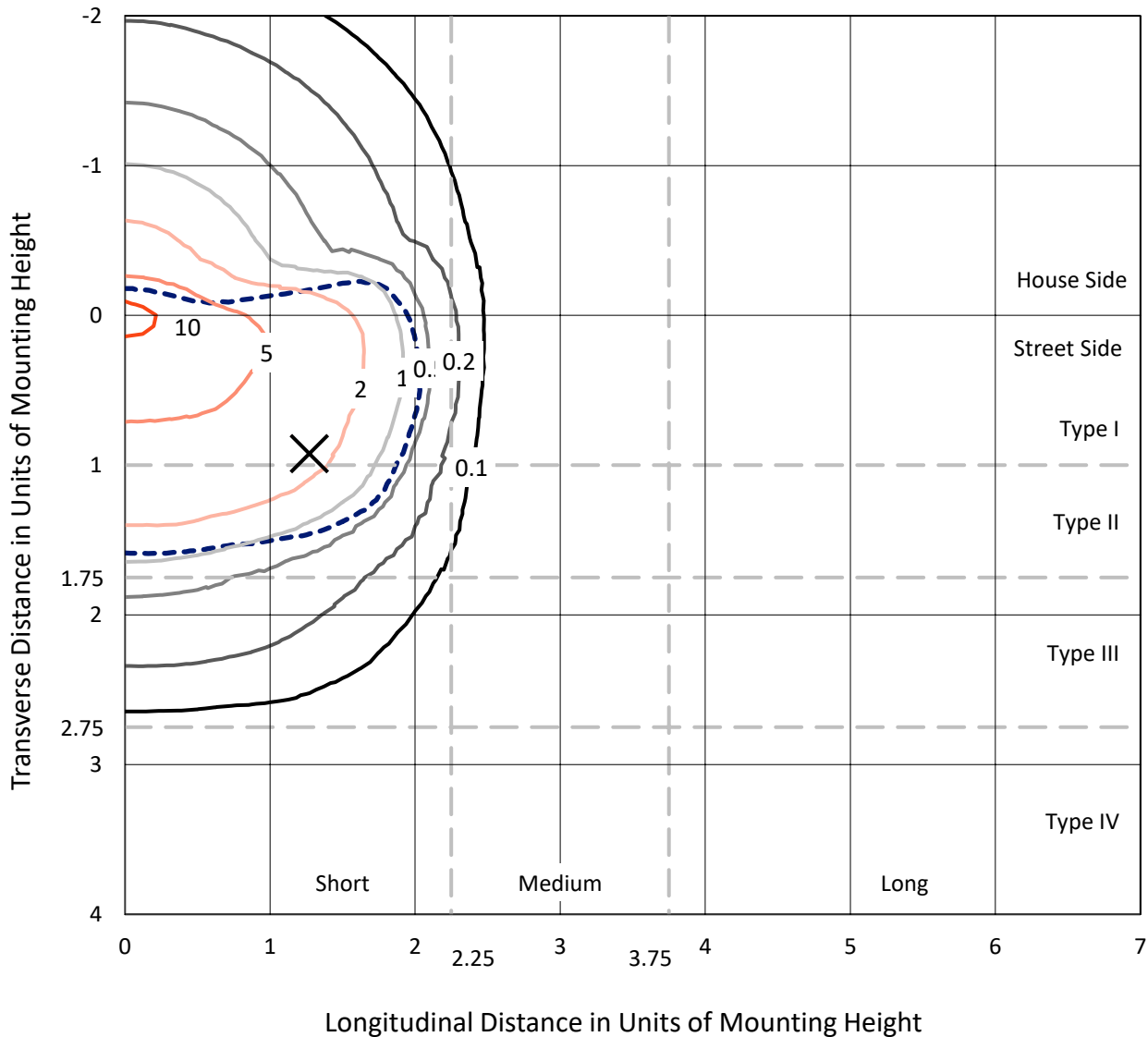
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

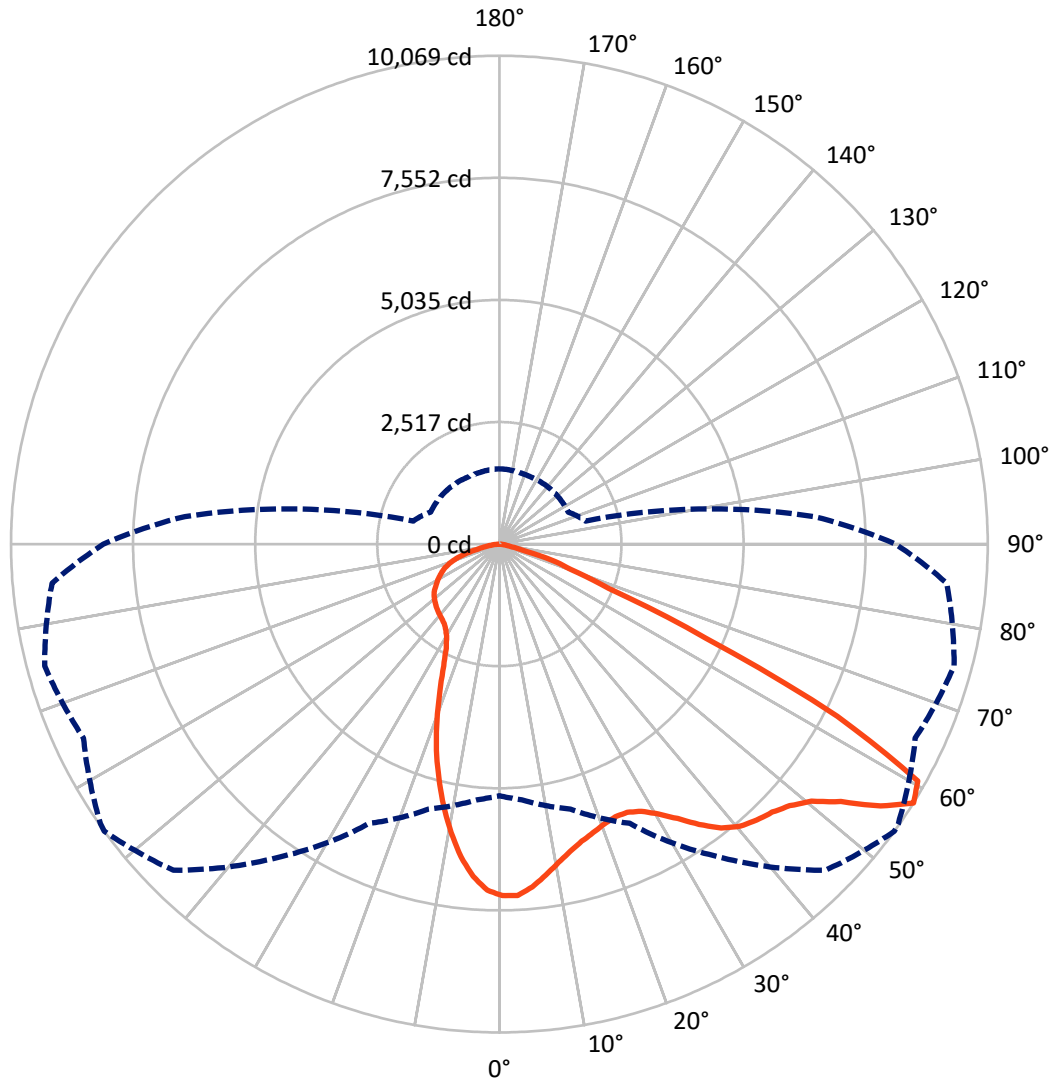
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5487.9	0.0	5487.9
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	13389.7	0.0	13389.7
	% Fixture	70.9	0.0	70.9
Total	Lumens	18877.6	0.0	18877.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.0	3.4
10°-20°	1520.1	8.1
20°-30°	2103.6	11.1
30°-40°	2922.9	15.5
40°-50°	3860.3	20.4
50°-60°	4587.4	24.3
60°-70°	2541.5	13.5
70°-80°	632.9	3.4
80°-90°	72.0	0.4
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°	18877.6	100.0
0°-180°	18877.6	100.0

Coefficient of Utilization



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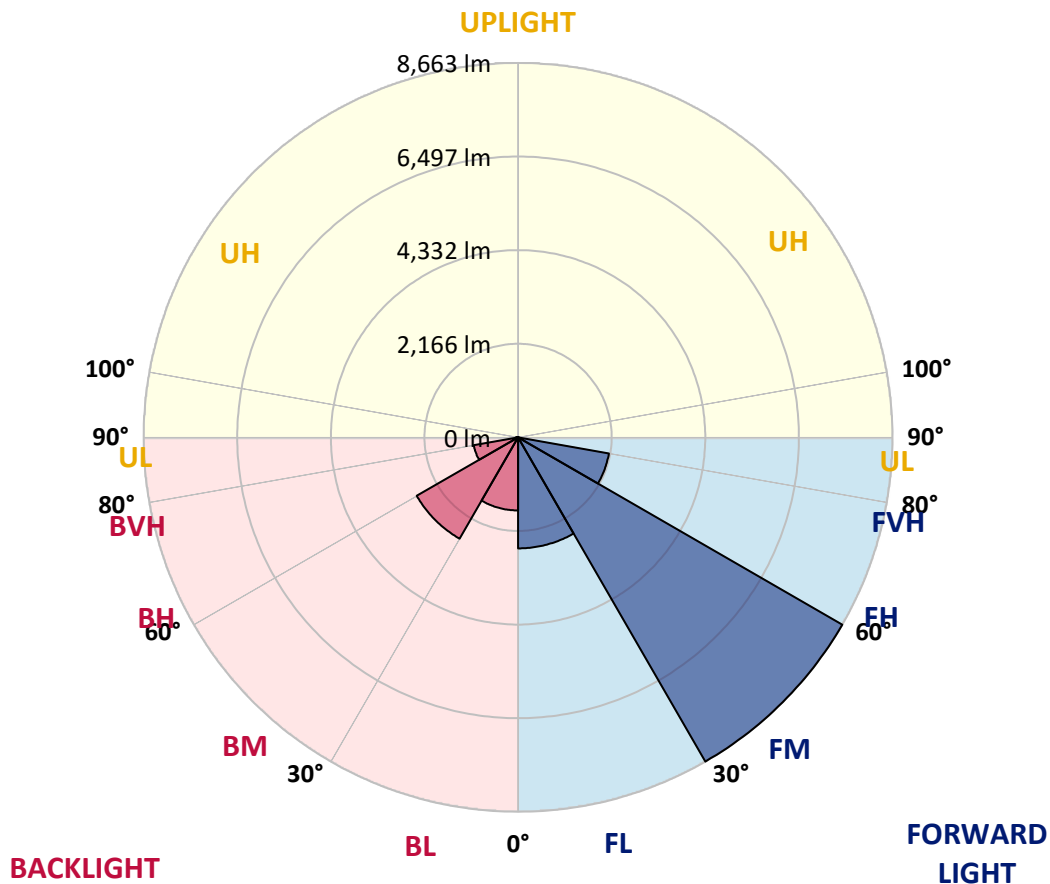
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2569.5	13.6			
FM (30°-60°)	8663.2	45.9			
FH (60°-80°)	2134.4	11.3			G2/5000
FVH (80°-90°)	22.5	0.1			G1/100
BL (0°-30°)	1691.2	9.0	B3/2500		
BM (30°-60°)	2707.3	14.3	B3/5000		
BH (60°-80°)	1040.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	49.5	0.3			G1/100
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°	54°	55°	65°	75°	85°
0°	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5
2.5°	7111.8	7126.3	7136.0	7170.0	7199.1	7224.9	7252.4	7252.4	7250.8	7245.9	7236.2
5°	6830.6	6846.8	6869.4	6916.3	6979.3	7024.5	7098.9	7105.3	7137.7	7150.6	7144.1
7.5°	6504.2	6509.0	6538.1	6599.5	6699.7	6780.5	6887.2	6900.1	6977.7	7022.9	7014.8
10°	6147.1	6130.9	6182.6	6273.1	6404.0	6539.8	6677.1	6688.4	6812.8	6898.5	6892.0
12.5°	5820.7	5822.3	5874.0	5983.9	6147.1	6315.1	6499.4	6525.2	6678.7	6788.6	6777.3
15°	5547.6	5554.0	5617.0	5741.5	5927.3	6127.7	6357.2	6381.4	6575.3	6720.7	6688.4
17.5°	5329.4	5335.9	5390.8	5533.0	5731.8	5974.2	6253.7	6278.0	6518.7	6691.7	6625.4
20°	5179.1	5175.9	5229.2	5365.0	5570.2	5833.6	6163.2	6198.8	6501.0	6703.0	6583.4
22.5°	5117.7	5116.1	5154.9	5266.4	5458.7	5725.3	6108.3	6156.8	6520.4	6753.1	6557.5
25°	5148.4	5142.0	5175.9	5258.3	5411.8	5683.3	6124.5	6176.2	6602.8	6856.5	6562.4
27.5°	5243.8	5235.7	5264.8	5339.1	5455.4	5726.9	6237.6	6297.4	6777.3	7045.5	6627.0
30°	5389.2	5384.3	5413.4	5484.5	5586.3	5872.4	6454.1	6522.0	7047.2	7339.6	6767.6
32.5°	5558.9	5550.8	5602.5	5684.9	5802.9	6137.4	6745.0	6833.9	7367.1	7717.8	7003.5
35°	5749.6	5743.1	5814.2	5933.8	6103.4	6505.8	7097.3	7194.2	7693.5	8146.0	7317.0
37.5°	5935.4	5935.4	6072.7	6250.5	6463.8	6906.6	7428.5	7489.9	7919.8	8525.8	7653.1
40°	6100.2	6109.9	6316.8	6583.4	6854.9	7268.5	7646.7	7698.4	8020.0	8787.5	7945.6
42.5°	6282.8	6290.9	6531.7	6880.7	7203.9	7561.0	7779.2	7805.0	8039.4	8918.4	8152.5
45°	6428.3	6439.6	6738.5	7111.8	7507.7	7780.8	7884.2	7906.8	8066.8	8989.5	8302.8
47.5°	6504.2	6520.4	6862.9	7297.6	7712.9	7977.9	8057.1	8066.8	8179.9	9114.0	8483.7
50°	6491.3	6523.6	6909.8	7389.7	7864.8	8176.7	8335.1	8351.2	8411.0	9296.6	8695.4
52.5°	6606.0	6620.6	7010.0	7499.6	8081.4	8543.5	8818.2	8840.9	8813.4	9433.9	8821.5
55°	6415.3	6484.8	6885.6	7483.5	8411.0	9110.7	9534.1	9522.8	9178.6	9587.4	9031.5
57.5°	5188.8	5290.6	5657.4	6352.3	7868.1	9508.3	10069.0	10041.5	9461.4	9705.4	9259.4
60°	3592.3	3608.4	3939.7	4432.6	6072.7	8399.7	9912.2	9972.0	9513.1	9556.7	8837.6
62.5°	2873.2	2868.3	2899.0	2911.9	3862.1	5904.7	7824.4	8042.6	7903.6	7446.3	6263.4
65°	2453.0	2470.8	2561.3	2514.4	2520.9	3325.6	4674.9	4705.6	4608.7	4443.9	3312.7
67.5°	1919.7	1950.5	2110.4	2293.0	2234.9	2141.1	2425.5	2411.0	1900.4	1470.5	1215.2
70°	1202.3	1221.7	1392.9	1800.2	1945.6	1758.2	1559.4	1552.9	1018.0	837.1	917.9
72.5°	701.3	704.6	753.0	1003.5	1291.1	1202.3	1147.3	1105.3	654.5	667.4	732.0
75°	386.2	386.2	384.6	433.1	509.0	450.9	436.3	425.0	437.9	496.1	544.6
77.5°	80.8	82.4	87.3	114.7	148.7	181.0	227.8	229.5	286.0	331.3	370.1
80°	37.2	38.8	48.5	61.4	79.2	105.0	139.0	140.6	172.9	208.5	234.3
82.5°	19.4	21.0	25.9	32.3	42.0	54.9	77.6	77.6	103.4	122.8	139.0
85°	6.5	6.5	9.7	12.9	17.8	22.6	30.7	30.7	45.2	59.8	69.5
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.5	6.5	8.1	9.7	16.2
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°	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5	7247.5
2.5°	7215.2	7165.1	7166.7	7176.4	7145.7	7098.9	7068.2	7029.4	7005.1	7000.3	7018.1
5°	7111.8	7053.6	7013.2	6971.2	6884.0	6780.5	6699.7	6633.5	6589.8	6573.7	6554.3
7.5°	6969.6	6893.6	6791.8	6673.9	6515.5	6331.3	6202.0	6080.8	5996.8	5972.6	5961.2
10°	6827.4	6717.5	6536.5	6316.8	6053.4	5804.5	5570.2	5390.8	5248.6	5167.8	5193.7
12.5°	6680.3	6544.6	6261.8	5924.1	5557.3	5182.4	4875.3	4578.0	4348.5	4233.8	4199.9
15°	6551.1	6366.8	5972.6	5515.2	5027.2	4555.4	4111.0	3665.0	3374.1	3215.7	3172.1
17.5°	6441.2	6202.0	5667.1	5098.3	4515.0	3842.7	3296.5	2882.9	2684.1	2596.8	2590.4
20°	6332.9	6040.4	5365.0	4649.1	3923.5	3170.5	2682.5	2488.6	2417.5	2386.8	2385.1
22.5°	6236.0	5870.7	5046.6	4199.9	3335.3	2664.7	2396.5	2312.4	2293.0	2293.0	2289.8
25°	6153.5	5701.1	4720.2	3723.2	2803.7	2372.2	2247.8	2212.2	2220.3	2234.9	2236.5
27.5°	6119.6	5568.6	4405.1	3233.5	2436.9	2202.5	2146.0	2141.1	2163.8	2186.4	2189.6
30°	6155.2	5478.1	4081.9	2764.9	2217.1	2099.1	2073.3	2083.0	2110.4	2133.1	2133.1
32.5°	6265.0	5432.8	3752.2	2422.3	2089.4	2026.4	2018.3	2028.0	2049.0	2062.0	2063.6
35°	6450.9	5450.6	3411.3	2191.2	2007.0	1973.1	1971.5	1977.9	1986.0	1994.1	1995.7
37.5°	6685.2	5529.8	3046.1	2057.1	1953.7	1934.3	1931.1	1929.4	1931.1	1931.1	1932.7
40°	6914.7	5649.4	2719.6	1977.9	1916.5	1900.4	1892.3	1881.0	1879.4	1876.1	1874.5
42.5°	7084.3	5741.5	2459.5	1921.4	1882.6	1863.2	1853.5	1835.7	1834.1	1832.5	1830.9
45°	7212.0	5819.0	2242.9	1866.4	1847.0	1829.3	1808.2	1792.1	1795.3	1798.6	1798.6
47.5°	7355.8	5886.9	2084.6	1814.7	1803.4	1785.6	1759.8	1748.5	1759.8	1771.1	1771.1
50°	7530.3	5982.2	1955.3	1763.0	1758.2	1737.1	1714.5	1709.7	1722.6	1738.8	1738.8
52.5°	7658.0	6064.7	1863.2	1711.3	1711.3	1683.8	1664.4	1662.8	1677.4	1693.5	1695.1
55°	7897.2	6257.0	1830.9	1651.5	1645.0	1624.0	1609.5	1598.2	1616.0	1630.5	1630.5
57.5°	8167.0	6512.3	1839.0	1565.9	1557.8	1551.3	1540.0	1527.1	1531.9	1548.1	1549.7
60°	7595.0	6017.8	1750.1	1480.2	1475.4	1472.1	1457.6	1435.0	1441.4	1454.4	1456.0
62.5°	5305.2	3999.5	1415.6	1373.6	1389.7	1388.1	1368.7	1342.9	1344.5	1362.2	1362.2
65°	2753.6	2163.8	1242.7	1276.6	1300.8	1291.1	1258.8	1236.2	1233.0	1255.6	1250.7
67.5°	1187.7	1181.3	1131.2	1174.8	1200.7	1179.6	1145.7	1108.5	1111.8	1119.9	1113.4
70°	956.6	985.7	1006.7	1053.6	1074.6	1035.8	998.7	977.7	959.9	958.3	946.9
72.5°	764.3	804.7	851.6	900.1	906.5	867.8	820.9	801.5	774.0	772.4	761.1
75°	575.3	609.2	646.4	685.2	685.2	648.0	617.3	607.6	575.3	565.6	555.9
77.5°	392.7	413.7	442.8	452.5	462.2	447.6	416.9	400.8	363.6	353.9	341.0
80°	247.2	261.8	279.6	286.0	295.7	277.9	253.7	235.9	210.1	202.0	195.5
82.5°	148.7	158.4	169.7	172.9	181.0	168.1	145.4	132.5	118.0	111.5	106.7
85°	75.9	80.8	87.3	88.9	87.3	74.3	66.3	59.8	50.1	48.5	45.2
87.5°	19.4	22.6	24.2	22.6	21.0	16.2	11.3	8.1	3.2	3.2	1.6
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)