

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: P638030

Luminaire Tested: GWS-SA4E-722-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 19199.1 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

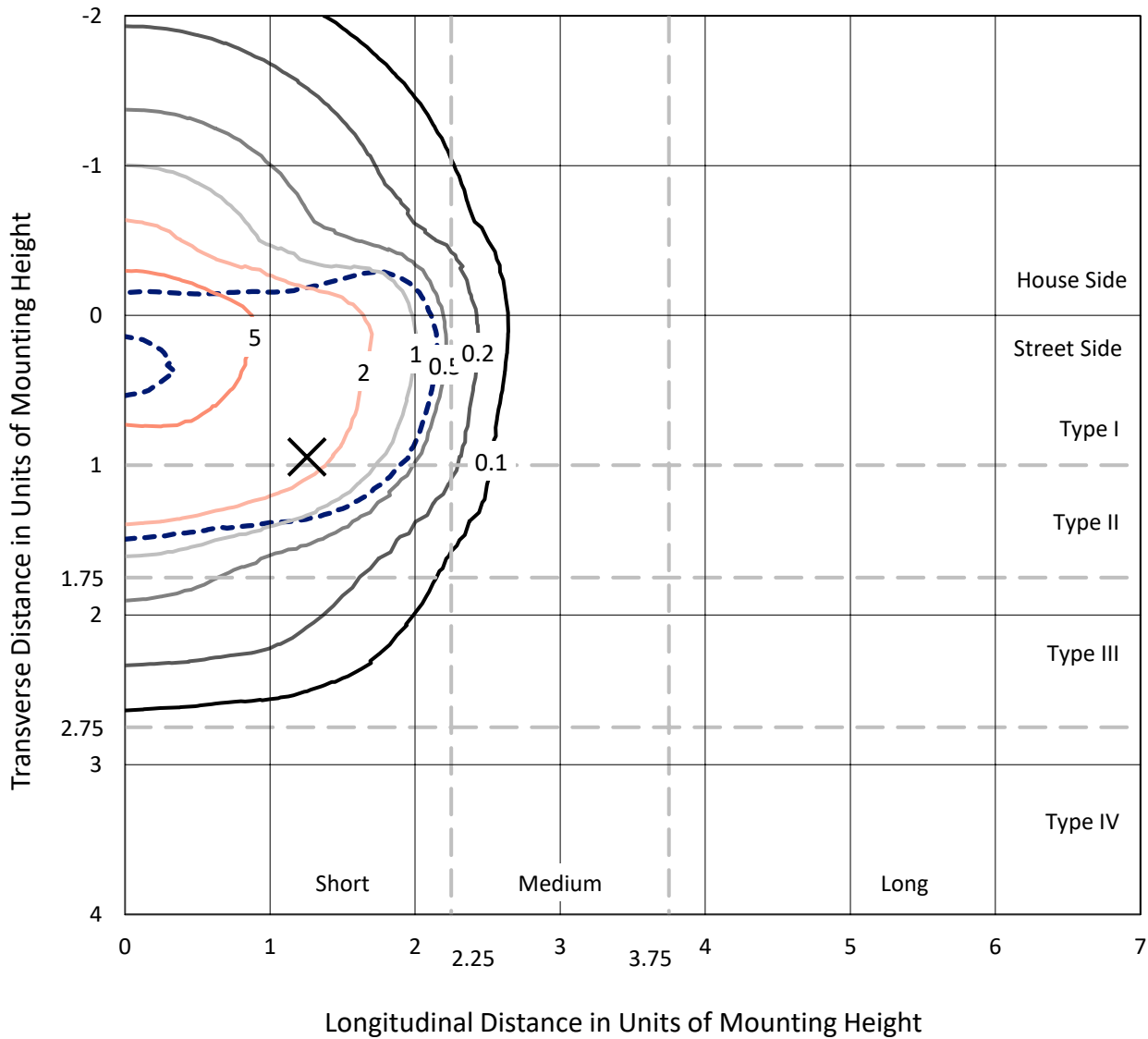
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

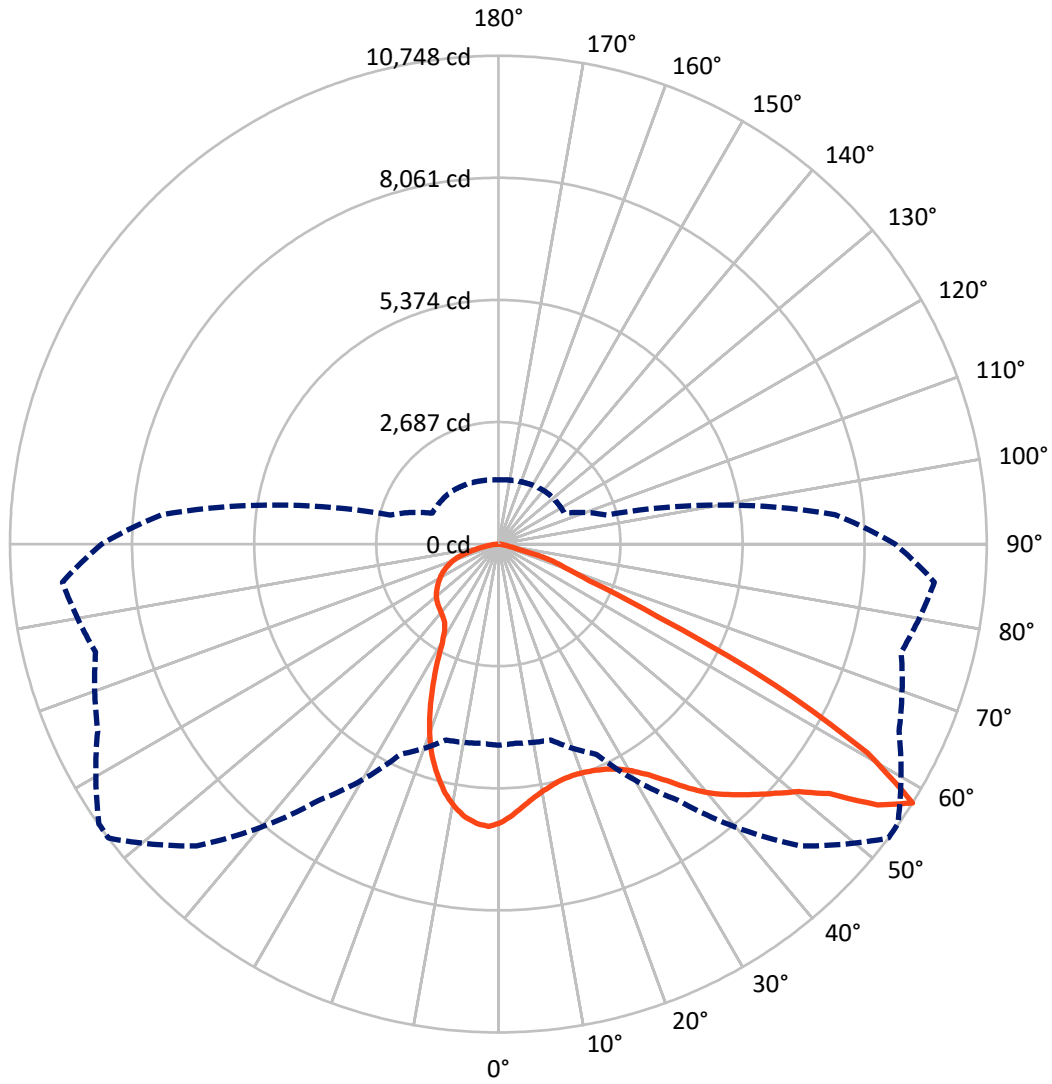
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6002.9	0.0	6002.9
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	13196.2	0.0	13196.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	19199.1	0.0	19199.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.4	2.9
10°-20°	1454.5	7.6
20°-30°	2143.0	11.2
30°-40°	2999.6	15.6
40°-50°	3943.3	20.5
50°-60°	4623.5	24.1
60°-70°	2723.7	14.2
70°-80°	677.6	3.5
80°-90°	79.5	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°	19199.1	100.0
0°-180°	19199.1	100.0

Coefficient of Utilization



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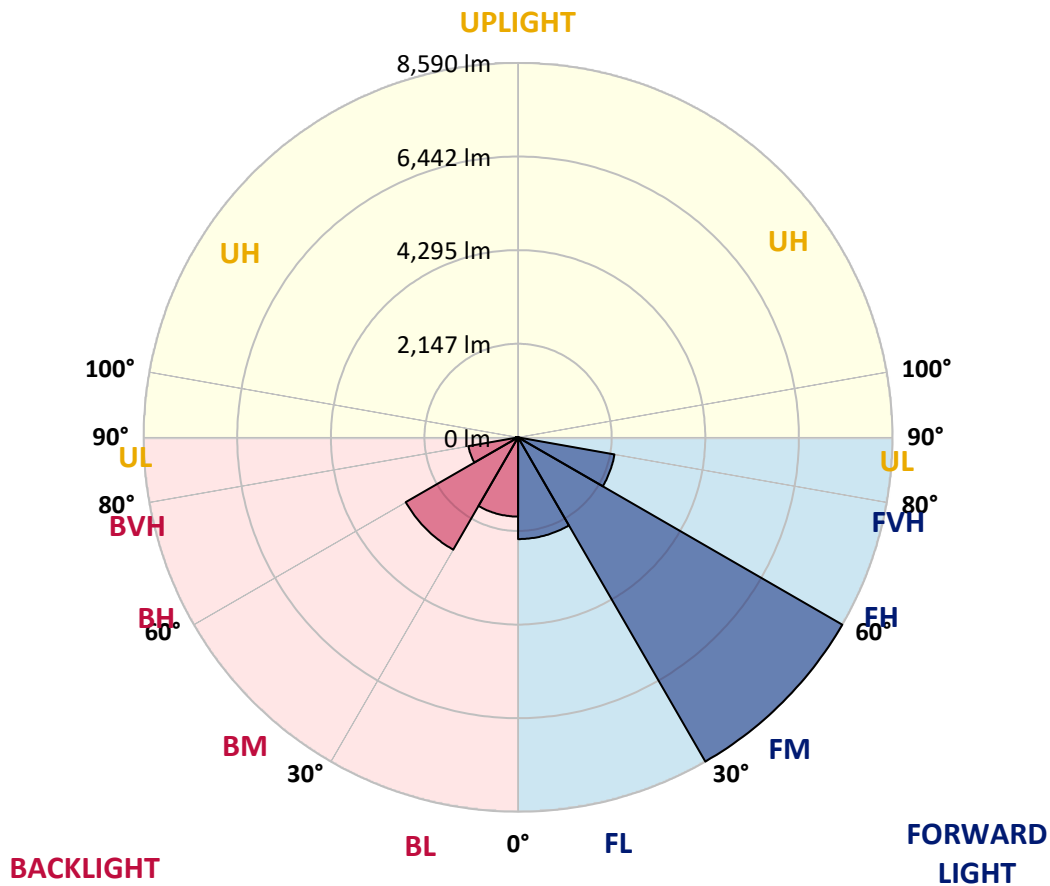
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2334.2	12.2			
FM (30°-60°)	8589.8	44.7			
FH (60°-80°)	2245.6	11.7			G2/5000
FVH (80°-90°)	26.6	0.1			G1/100
BL (0°-30°)	1817.7	9.5	B3/2500		
BM (30°-60°)	2976.5	15.5	B3/5000		
BH (60°-80°)	1155.8	6.0	B3/2500		G3/2500
BVH (80°-90°)	52.9	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°	53°	55°	65°	75°	85°
0°	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8
2.5°	5778.5	5794.7	5797.9	5848.0	5851.2	5924.0	5972.4	5962.7	6012.8	6074.2	6122.7
5°	5502.2	5503.8	5520.0	5579.8	5612.1	5707.4	5788.2	5788.2	5885.2	6011.2	6119.5
7.5°	5274.4	5272.7	5287.3	5353.5	5406.9	5521.6	5631.5	5644.4	5780.1	5964.4	6140.5
10°	5062.7	5074.0	5090.1	5170.9	5238.8	5381.0	5511.9	5532.9	5704.2	5932.0	6169.6
12.5°	4926.9	4928.5	4952.8	5043.3	5130.5	5282.4	5419.8	5445.6	5642.8	5901.3	6190.6
15°	4839.7	4841.3	4867.1	4967.3	5069.1	5222.6	5363.2	5392.3	5607.2	5896.5	6231.0
17.5°	4800.9	4799.3	4823.5	4923.7	5035.2	5195.2	5345.5	5381.0	5623.4	5933.6	6302.1
20°	4800.9	4802.5	4815.4	4905.9	5019.0	5188.7	5363.2	5406.9	5686.4	6017.7	6412.0
22.5°	4868.8	4875.2	4881.7	4943.1	5032.0	5198.4	5410.1	5468.3	5822.2	6158.3	6555.8
25°	5001.3	5002.9	5009.3	5059.4	5099.8	5225.9	5487.7	5574.9	6033.8	6363.5	6736.8
27.5°	5179.0	5201.6	5208.1	5240.4	5240.4	5293.7	5608.8	5734.9	6319.9	6659.2	6967.8
30°	5427.9	5435.9	5447.3	5482.8	5444.0	5421.4	5786.6	5948.2	6651.1	7016.3	7245.8
32.5°	5646.0	5663.8	5725.2	5783.4	5713.9	5642.8	6048.4	6239.1	6969.5	7388.0	7541.5
35°	5831.8	5875.5	5993.4	6122.7	6074.2	6003.1	6395.8	6594.6	7231.2	7654.6	7803.3
37.5°	6056.5	6090.4	6252.0	6462.1	6505.7	6471.7	6819.2	6961.4	7405.8	7722.5	7945.5
40°	6284.3	6336.0	6544.5	6835.3	7001.8	7026.0	7210.2	7305.6	7465.5	7590.0	7918.0
42.5°	6517.0	6605.9	6891.9	7231.2	7526.9	7581.9	7539.9	7580.3	7446.1	7407.4	7790.3
45°	6801.4	6906.4	7229.6	7662.7	8052.1	8137.8	7863.1	7825.9	7442.9	7337.9	7711.2
47.5°	7137.5	7242.5	7551.2	8055.3	8553.1	8616.1	8194.3	8126.4	7556.0	7444.5	7817.8
50°	7434.8	7507.6	7783.9	8347.8	9020.1	9057.2	8559.5	8477.1	7837.2	7740.2	8150.7
52.5°	7132.7	7124.6	7415.4	8110.3	9262.4	9710.0	9121.9	9042.7	8380.1	8231.5	8666.2
55°	6051.6	5959.5	6219.7	6903.2	8585.4	10290.2	10130.2	9971.8	9104.1	8726.0	9149.3
57.5°	4424.4	4398.5	4461.5	5103.1	6877.3	9391.7	10747.5	10732.9	9729.4	9178.4	9630.9
60°	3459.7	3420.9	3252.8	3270.6	4687.8	7336.3	9327.1	9755.3	10117.3	9449.9	9967.0
62.5°	3071.9	3042.8	2955.5	2714.7	2792.3	4918.9	6836.9	7229.6	8840.7	8346.2	8561.1
65°	2543.5	2535.4	2608.1	2598.4	2339.8	2716.4	3858.8	4254.7	5558.8	5628.2	5558.8
67.5°	1848.6	1834.1	2018.3	2381.9	2252.6	2050.6	2150.8	2288.1	2850.5	2559.6	2304.3
70°	1202.2	1181.2	1287.9	1721.0	2016.7	1787.2	1549.7	1527.0	1567.4	974.4	1053.6
72.5°	806.3	782.1	780.5	946.9	1218.4	1203.9	1200.6	1189.3	1061.7	769.2	853.2
75°	449.2	429.8	425.0	408.8	436.3	444.4	473.5	489.6	530.0	583.3	646.4
77.5°	75.9	74.3	93.7	119.6	164.8	211.7	261.8	276.3	341.0	404.0	444.4
80°	42.0	43.6	56.6	69.5	92.1	126.0	161.6	171.3	210.1	244.0	276.3
82.5°	22.6	22.6	29.1	37.2	50.1	66.3	87.3	95.3	121.2	142.2	164.8
85°	8.1	8.1	11.3	14.5	21.0	27.5	33.9	38.8	53.3	72.7	82.4
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.5	6.5	8.1	14.5	21.0
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°	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8	6130.8
2.5°	6163.1	6119.5	6179.3	6206.7	6216.4	6222.9	6180.9	6151.8	6142.1	6111.4	6093.6
5°	6185.7	6156.6	6213.2	6213.2	6172.8	6130.8	6045.1	5985.4	5943.3	5893.3	5885.2
7.5°	6224.5	6203.5	6234.2	6171.2	6069.4	5956.3	5807.6	5691.3	5597.5	5536.1	5537.7
10°	6276.2	6250.4	6226.1	6085.5	5899.7	5691.3	5463.4	5293.7	5138.6	5067.5	5028.7
12.5°	6310.2	6273.0	6171.2	5938.5	5665.4	5385.9	5064.3	4812.2	4587.6	4485.8	4477.7
15°	6352.2	6284.3	6080.7	5747.8	5368.1	4986.7	4573.0	4222.4	3918.6	3760.2	3752.2
17.5°	6407.1	6295.6	5972.4	5529.7	5054.6	4492.3	3971.9	3530.8	3207.6	3084.8	3105.8
20°	6484.7	6308.5	5849.6	5287.3	4665.2	3929.9	3281.9	2876.3	2751.9	2743.8	2727.7
22.5°	6571.9	6316.6	5713.9	5015.8	4193.3	3330.4	2711.5	2538.6	2537.0	2577.4	2587.1
25°	6670.5	6323.1	5560.4	4699.1	3682.7	2732.5	2398.0	2346.3	2386.7	2462.7	2472.4
27.5°	6796.5	6336.0	5374.5	4351.7	3139.7	2360.9	2225.1	2212.2	2260.7	2331.8	2328.5
30°	6982.4	6382.9	5177.4	3952.5	2582.2	2184.7	2120.1	2121.7	2141.1	2175.0	2179.9
32.5°	7171.4	6455.6	4985.1	3503.3	2262.3	2084.5	2055.4	2052.2	2052.2	2066.8	2070.0
35°	7350.8	6538.0	4776.7	3034.7	2107.2	2026.4	2007.0	1997.3	1992.4	1989.2	1984.3
37.5°	7451.0	6578.4	4573.0	2572.5	2024.7	1987.6	1968.2	1955.3	1937.5	1924.6	1921.3
40°	7407.4	6531.5	4337.1	2226.7	1974.7	1950.4	1927.8	1910.0	1885.8	1874.5	1868.0
42.5°	7261.9	6386.1	4080.2	2063.5	1934.3	1910.0	1882.5	1853.5	1837.3	1827.6	1826.0
45°	7108.4	6210.0	3769.9	1968.2	1895.5	1866.4	1834.1	1801.7	1784.0	1779.1	1777.5
47.5°	7103.6	6122.7	3440.3	1892.2	1848.6	1819.5	1779.1	1746.8	1727.4	1721.0	1714.5
50°	7316.9	6211.6	3068.6	1826.0	1800.1	1769.4	1724.2	1688.6	1664.4	1656.3	1654.7
52.5°	7759.6	6546.1	2735.7	1759.7	1735.5	1699.9	1662.8	1627.2	1598.1	1583.6	1582.0
55°	8237.9	6971.1	2528.9	1691.9	1659.5	1628.8	1594.9	1556.1	1523.8	1501.2	1498.0
57.5°	8732.4	7434.8	2465.9	1606.2	1582.0	1561.0	1520.6	1478.6	1441.4	1420.4	1415.5
60°	9139.6	7834.0	2583.9	1515.7	1502.8	1475.3	1438.2	1397.8	1371.9	1355.8	1352.5
62.5°	7651.4	6378.0	2086.1	1417.2	1417.2	1388.1	1346.1	1317.0	1299.2	1287.9	1284.7
65°	4855.8	3949.3	1423.6	1318.6	1317.0	1278.2	1242.6	1223.2	1215.2	1197.4	1194.2
67.5°	2115.2	1805.0	1216.8	1218.4	1211.9	1169.9	1134.4	1119.8	1103.7	1084.3	1082.7
70°	1097.2	1118.2	1089.1	1106.9	1095.6	1045.5	1011.6	988.9	955.0	935.6	937.2
72.5°	885.5	908.1	940.5	967.9	943.7	903.3	850.0	822.5	778.9	757.9	759.5
75°	675.5	699.7	730.4	759.5	740.1	690.0	656.1	628.6	578.5	554.3	559.1
77.5°	465.4	478.3	515.5	513.9	507.4	492.9	442.8	410.4	358.7	329.6	332.9
80°	289.2	297.3	315.1	323.2	320.0	300.6	260.2	235.9	205.2	187.4	189.1
82.5°	174.5	179.4	195.5	197.1	195.5	181.0	150.3	132.5	113.1	103.4	103.4
85°	88.9	92.1	101.8	101.8	92.1	77.6	69.5	61.4	50.1	45.2	45.2
87.5°	24.2	24.2	30.7	25.9	21.0	19.4	9.7	8.1	3.2	1.6	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)