

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: P637755

Luminaire Tested: GWS-SA4D-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637755
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-SA4D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20857.6 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

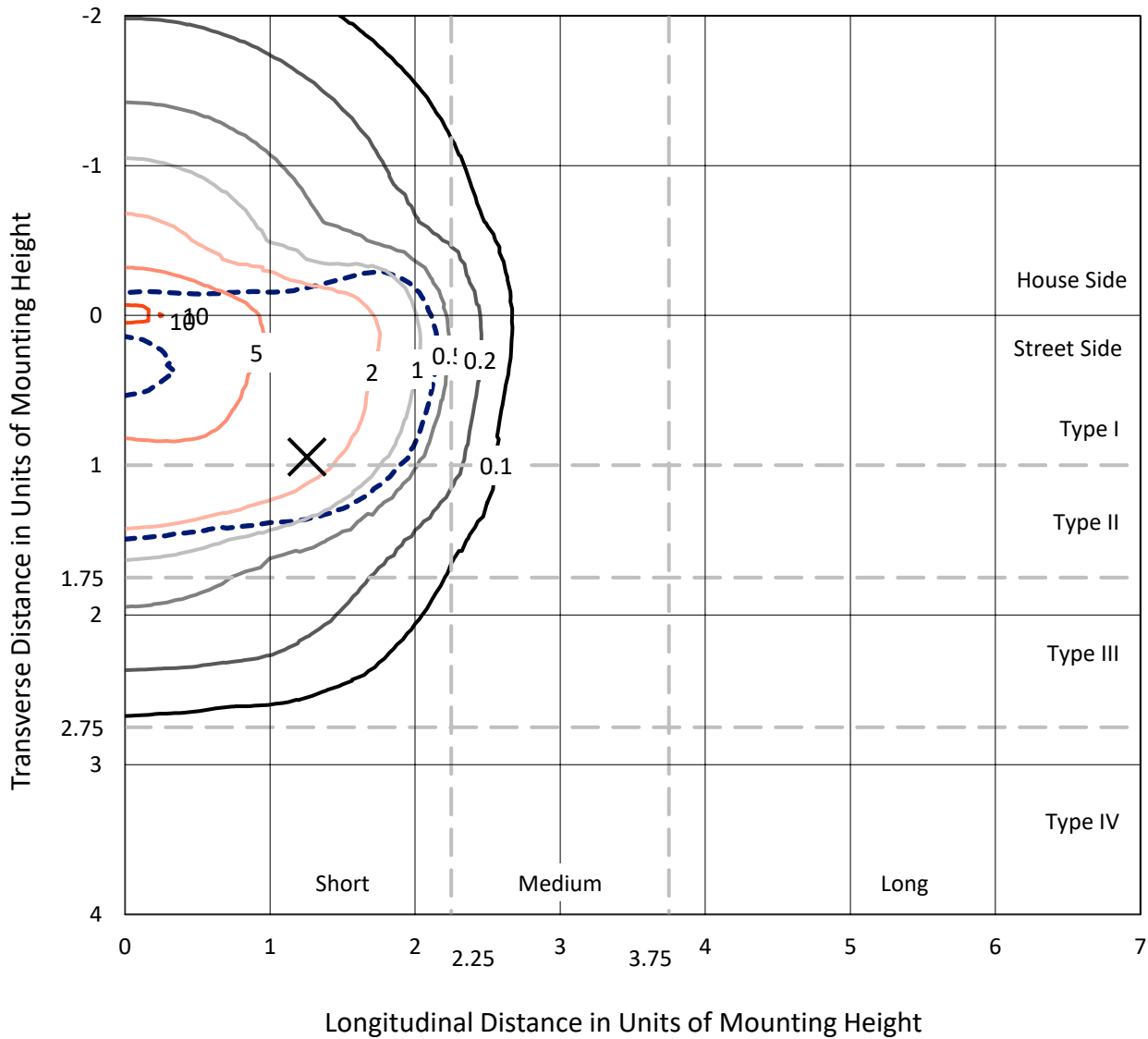
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

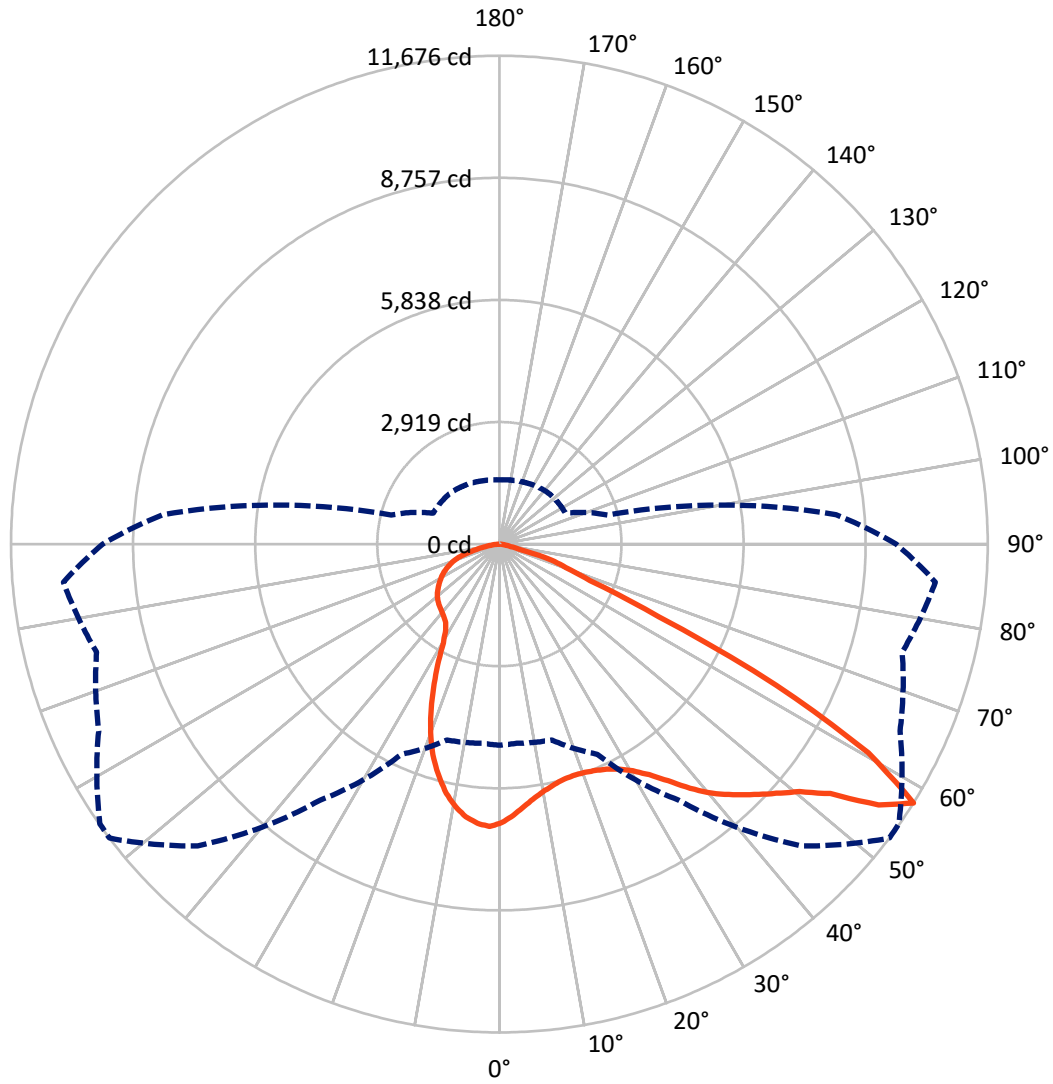
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	6521.4	0.0	6521.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	14336.2	0.0	14336.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	20857.6	0.0	20857.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.3	2.9
10°-20°	1580.2	7.6
20°-30°	2328.1	11.2
30°-40°	3258.8	15.6
40°-50°	4283.9	20.5
50°-60°	5022.9	24.1
60°-70°	2959.0	14.2
70°-80°	736.1	3.5
80°-90°	86.4	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°	20857.6	100.0
0°-180°	20857.6	100.0

Coefficient of Utilization



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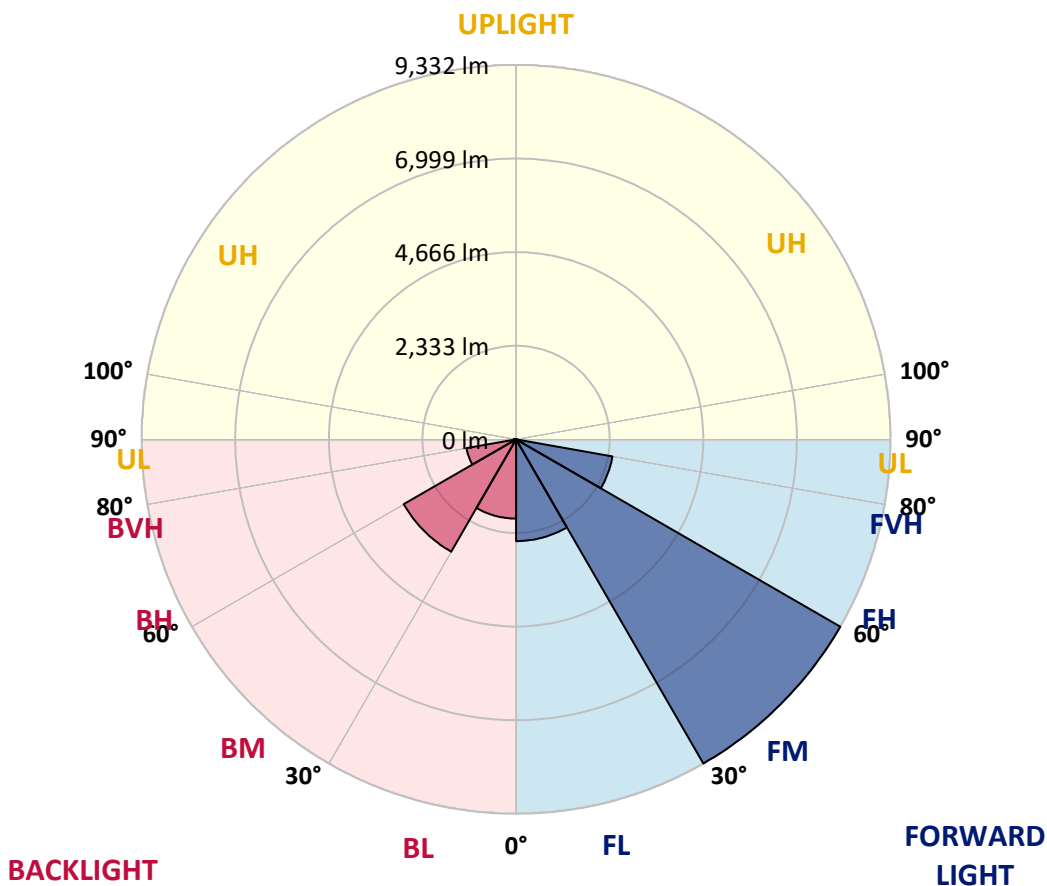
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2535.9	12.2			
FM (30°-60°)	9331.9	44.7			
FH (60°-80°)	2439.5	11.7			G2/5000
FVH (80°-90°)	28.9	0.1			G1/100
BL (0°-30°)	1974.7	9.5	B3/2500		
BM (30°-60°)	3233.6	15.5	B3/5000		
BH (60°-80°)	1255.6	6.0	B3/2500		G3/2500
BVH (80°-90°)	57.5	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°	53°	55°	65°	75°	85°
0°	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4
2.5°	6277.7	6295.2	6298.8	6353.2	6356.7	6435.7	6488.4	6477.8	6532.2	6599.0	6651.6
5°	5977.5	5979.3	5996.8	6061.8	6096.9	6200.5	6288.2	6288.2	6393.6	6530.5	6648.1
7.5°	5730.0	5728.2	5744.0	5816.0	5873.9	5998.6	6117.9	6132.0	6279.5	6479.6	6670.9
10°	5500.0	5512.3	5529.8	5617.6	5691.4	5845.8	5988.0	6010.9	6196.9	6444.5	6702.5
12.5°	5352.5	5354.3	5380.6	5478.9	5573.7	5738.8	5888.0	5916.1	6130.2	6411.1	6725.3
15°	5257.7	5259.5	5287.6	5396.4	5507.0	5673.8	5826.5	5858.1	6091.6	6405.8	6769.2
17.5°	5215.6	5213.9	5240.2	5349.0	5470.2	5644.0	5807.2	5845.8	6109.2	6446.2	6846.5
20°	5215.6	5217.4	5231.4	5329.7	5452.6	5636.9	5826.5	5873.9	6177.6	6537.5	6965.9
22.5°	5289.3	5296.4	5303.4	5370.1	5466.7	5647.5	5877.4	5940.6	6325.1	6690.2	7122.1
25°	5433.3	5435.1	5442.1	5496.5	5540.4	5677.3	5961.7	6056.5	6555.1	6913.2	7318.7
27.5°	5626.4	5651.0	5658.0	5693.1	5693.1	5751.0	6093.4	6230.3	6865.8	7234.4	7569.7
30°	5896.7	5905.5	5917.8	5956.4	5914.3	5889.7	6286.5	6462.0	7225.7	7622.4	7871.7
32.5°	6133.7	6153.1	6219.8	6283.0	6207.5	6130.2	6570.9	6778.0	7571.5	8026.2	8193.0
35°	6335.6	6383.0	6511.2	6651.6	6599.0	6521.7	6948.3	7164.2	7855.9	8315.8	8477.3
37.5°	6579.6	6616.5	6792.1	7020.3	7067.7	7030.8	7408.2	7562.7	8045.5	8389.6	8631.8
40°	6827.2	6883.3	7109.8	7425.8	7606.6	7632.9	7833.1	7936.6	8110.4	8245.6	8602.0
42.5°	7080.0	7176.5	7487.2	7855.9	8177.2	8236.8	8191.2	8235.1	8089.4	8047.2	8463.3
45°	7388.9	7503.0	7854.1	8324.6	8747.7	8840.7	8542.3	8501.9	8085.9	7971.8	8377.3
47.5°	7754.1	7868.2	8203.5	8751.2	9291.9	9360.4	8902.2	8828.4	8208.8	8087.6	8493.1
50°	8077.1	8156.1	8456.3	9069.0	9799.2	9839.6	9298.9	9209.4	8514.2	8408.9	8854.8
52.5°	7748.8	7740.0	8056.0	8810.9	10062.6	10548.8	9909.8	9823.8	9104.1	8942.6	9414.8
55°	6574.4	6474.3	6756.9	7499.5	9327.0	11179.1	11005.3	10833.2	9890.5	9479.7	9939.7
57.5°	4806.6	4778.5	4847.0	5543.9	7471.4	10203.0	11675.9	11660.1	10569.9	9971.3	10462.8
60°	3758.5	3716.4	3533.8	3553.1	5092.7	7970.0	10132.8	10598.0	10991.2	10266.2	10828.0
62.5°	3337.2	3305.6	3210.8	2949.3	3033.5	5343.8	7427.6	7854.1	9604.4	9067.2	9300.7
65°	2763.2	2754.4	2833.4	2822.9	2542.0	2951.0	4192.2	4622.3	6038.9	6114.4	6038.9
67.5°	2008.3	1992.5	2192.6	2587.6	2447.2	2227.7	2336.6	2485.8	3096.7	2780.7	2503.4
70°	1306.1	1283.3	1399.1	1869.6	2190.9	1941.6	1683.5	1659.0	1702.8	1058.6	1144.6
72.5°	876.0	849.7	847.9	1028.7	1323.7	1307.9	1304.3	1292.1	1153.4	835.6	926.9
75°	488.0	467.0	461.7	444.1	474.0	482.8	514.4	531.9	575.8	633.7	702.2
77.5°	82.5	80.8	101.8	129.9	179.1	230.0	284.4	300.2	370.4	438.9	482.8
80°	45.6	47.4	61.4	75.5	100.1	136.9	175.6	186.1	228.2	265.1	300.2
82.5°	24.6	24.6	31.6	40.4	54.4	72.0	94.8	103.6	131.7	154.5	179.1
85°	8.8	8.8	12.3	15.8	22.8	29.8	36.9	42.1	57.9	79.0	89.5
87.5°	0.0	0.0	0.0	0.0	1.8	3.5	7.0	7.0	8.8	15.8	22.8
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°	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4	6660.4
2.5°	6695.5	6648.1	6713.1	6742.9	6753.4	6760.5	6714.8	6683.2	6672.7	6639.3	6620.0
5°	6720.1	6688.5	6749.9	6749.9	6706.0	6660.4	6567.4	6502.4	6456.8	6402.3	6393.6
7.5°	6762.2	6739.4	6772.7	6704.3	6593.7	6470.8	6309.3	6182.9	6081.1	6014.4	6016.1
10°	6818.4	6790.3	6764.0	6611.2	6409.4	6182.9	5935.4	5751.0	5582.5	5505.3	5463.1
12.5°	6855.3	6814.9	6704.3	6451.5	6154.8	5851.1	5501.8	5227.9	4983.9	4873.3	4864.5
15°	6900.9	6827.2	6606.0	6244.3	5831.8	5417.5	4968.1	4587.1	4257.1	4085.1	4076.3
17.5°	6960.6	6839.5	6488.4	6007.3	5491.2	4880.3	4315.0	3835.8	3484.7	3351.3	3374.1
20°	7044.9	6853.5	6354.9	5744.0	5068.1	4269.4	3565.4	3124.8	2989.6	2980.9	2963.3
22.5°	7139.6	6862.3	6207.5	5449.1	4555.5	3618.1	2945.7	2757.9	2756.1	2800.0	2810.6
25°	7246.7	6869.3	6040.7	5105.0	4000.8	2968.6	2605.2	2549.0	2592.9	2675.4	2685.9
27.5°	7383.7	6883.3	5838.8	4727.6	3411.0	2564.8	2417.3	2403.3	2456.0	2533.2	2529.7
30°	7585.5	6934.3	5624.6	4294.0	2805.3	2373.4	2303.2	2305.0	2326.0	2362.9	2368.2
32.5°	7790.9	7013.3	5415.7	3805.9	2457.7	2264.6	2233.0	2229.5	2229.5	2245.3	2248.8
35°	7985.8	7102.8	5189.3	3296.8	2289.2	2201.4	2180.3	2169.8	2164.5	2161.0	2155.8
37.5°	8094.6	7146.7	4968.1	2794.8	2199.7	2159.3	2138.2	2124.2	2104.9	2090.8	2087.3
40°	8047.2	7095.8	4711.8	2419.1	2145.2	2118.9	2094.3	2075.0	2048.7	2036.4	2029.4
42.5°	7889.3	6937.8	4432.7	2241.8	2101.3	2075.0	2045.2	2013.6	1996.0	1985.5	1983.7
45°	7722.5	6746.4	4095.6	2138.2	2059.2	2027.6	1992.5	1957.4	1938.1	1932.8	1931.1
47.5°	7717.2	6651.6	3737.5	2055.7	2008.3	1976.7	1932.8	1897.7	1876.6	1869.6	1862.6
50°	7948.9	6748.2	3333.7	1983.7	1955.6	1922.3	1873.1	1834.5	1808.2	1799.4	1797.6
52.5°	8429.9	7111.6	2972.1	1911.7	1885.4	1846.8	1806.4	1767.8	1736.2	1720.4	1718.6
55°	8949.6	7573.3	2747.4	1838.0	1802.9	1769.6	1732.7	1690.6	1655.4	1630.9	1627.4
57.5°	9486.8	8077.1	2678.9	1745.0	1718.6	1695.8	1651.9	1606.3	1565.9	1543.1	1537.8
60°	9929.2	8510.7	2807.1	1646.7	1632.6	1602.8	1562.4	1518.5	1490.4	1472.9	1469.4
62.5°	8312.3	6929.0	2266.4	1539.6	1539.6	1508.0	1462.3	1430.7	1411.4	1399.1	1395.6
65°	5275.3	4290.5	1546.6	1432.5	1430.7	1388.6	1350.0	1328.9	1320.1	1300.8	1297.3
67.5°	2298.0	1960.9	1321.9	1323.7	1316.6	1271.0	1232.4	1216.6	1199.0	1177.9	1176.2
70°	1192.0	1214.8	1183.2	1202.5	1190.2	1135.8	1098.9	1074.4	1037.5	1016.4	1018.2
72.5°	962.0	986.6	1021.7	1051.5	1025.2	981.3	923.4	893.6	846.2	823.3	825.1
75°	733.8	760.1	793.5	825.1	804.0	749.6	712.7	682.9	628.5	602.1	607.4
77.5°	505.6	519.6	560.0	558.3	551.2	535.4	481.0	445.9	389.7	358.1	361.6
80°	314.2	323.0	342.3	351.1	347.6	326.5	282.6	256.3	222.9	203.6	205.4
82.5°	189.6	194.9	212.4	214.2	212.4	196.6	163.3	144.0	122.9	112.4	112.4
85°	96.6	100.1	110.6	110.6	100.1	84.3	75.5	66.7	54.4	49.2	49.2
87.5°	26.3	26.3	33.4	28.1	22.8	21.1	10.5	8.8	3.5	1.8	1.8
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)