

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: P637831

Luminaire Tested: GWS-SA4D-750-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24853.5 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

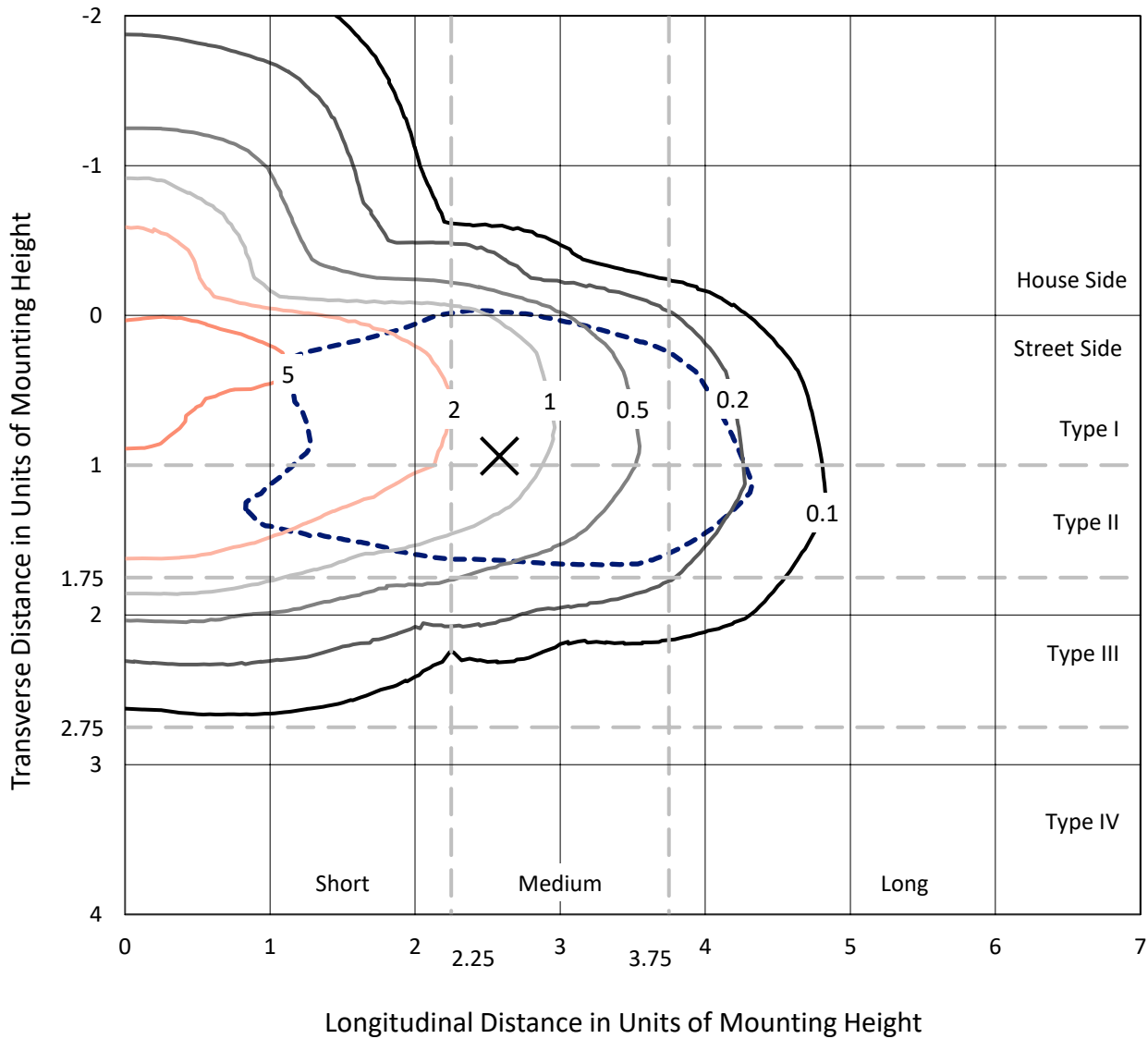
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

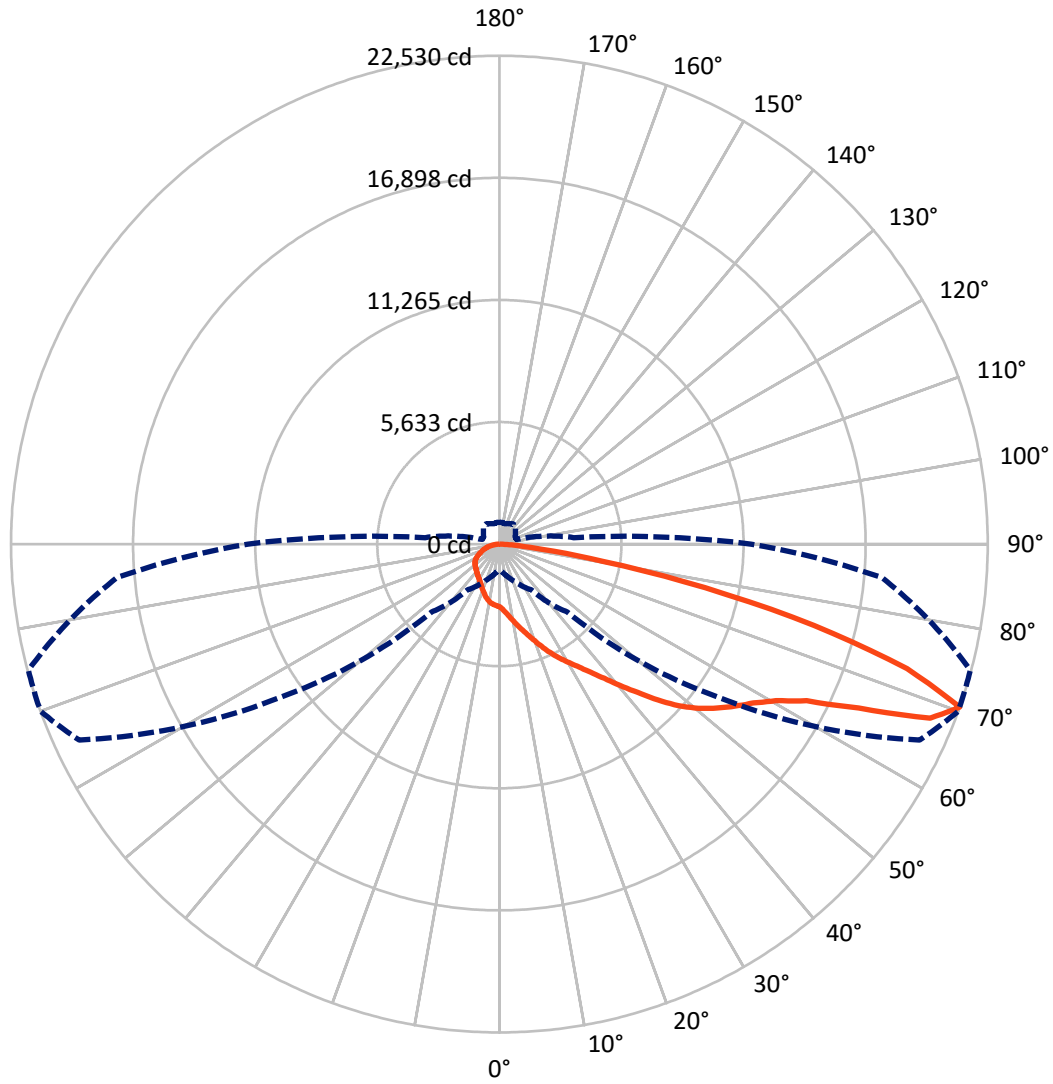
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4453.8	0.0	4453.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	20399.7	0.0	20399.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	24853.5	0.0	24853.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	1.2
10°-20°	958.3	3.9
20°-30°	1697.7	6.8
30°-40°	2555.0	10.3
40°-50°	3865.5	15.6
50°-60°	5537.5	22.3
60°-70°	6121.1	24.6
70°-80°	3454.3	13.9
80°-90°	369.5	1.5
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°	24853.5	100.0
0°-180°	24853.5	100.0

Coefficient of Utilization



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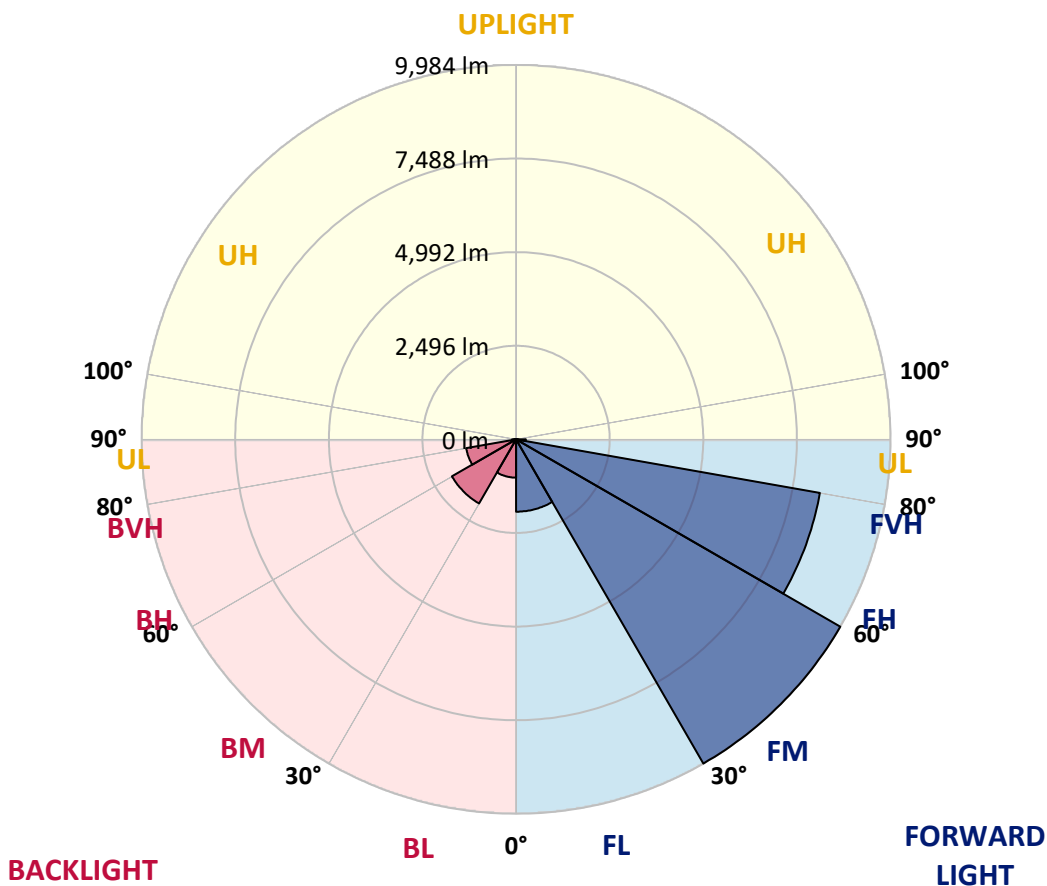
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.4	7.8			
FM (30°-60°)	9983.6	40.2			
FH (60°-80°)	8225.5	33.1			G4/12000
FVH (80°-90°)	261.2	1.1			G3/500
BL (0°-30°)	1021.2	4.1	B3/2500		
BM (30°-60°)	1974.4	7.9	B2/2500		
BH (60°-80°)	1349.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	108.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4
2.5°	3210.9	3205.5	3209.1	3205.5	3185.8	3137.3	3097.8	3047.5	3013.4	2993.6	2946.9
5°	3588.0	3582.6	3570.1	3552.1	3516.2	3449.7	3351.0	3241.4	3175.0	3124.7	3025.9
7.5°	3859.2	3859.2	3857.4	3835.8	3810.7	3740.7	3623.9	3480.3	3383.3	3297.1	3135.5
10°	3997.5	4006.4	4019.0	4049.5	4044.2	4006.4	3896.9	3742.5	3620.3	3519.8	3279.1
12.5°	4072.9	4078.3	4099.8	4162.7	4227.3	4236.3	4171.7	4010.0	3877.1	3742.5	3439.0
15°	4169.9	4171.7	4200.4	4275.8	4371.0	4466.2	4450.0	4288.4	4151.9	4002.9	3616.8
17.5°	4245.3	4257.9	4309.9	4397.9	4516.5	4647.5	4726.6	4626.0	4457.2	4286.6	3810.7
20°	4272.2	4281.2	4349.4	4484.1	4645.8	4830.7	5006.7	4979.8	4809.2	4608.0	4029.8
22.5°	4369.2	4369.2	4419.5	4532.6	4723.0	4992.3	5277.9	5347.9	5197.1	4961.8	4265.0
25°	4582.9	4575.7	4599.1	4645.8	4789.4	5121.6	5545.5	5755.6	5586.8	5322.8	4500.3
27.5°	4875.6	4872.0	4870.2	4877.4	4925.9	5234.8	5771.7	6136.3	5967.5	5669.4	4710.4
30°	5193.5	5182.7	5206.0	5184.5	5173.7	5369.5	5963.9	6477.5	6346.4	6012.4	4884.6
32.5°	5626.3	5606.5	5601.1	5531.1	5488.0	5579.6	6118.3	6865.4	6761.2	6382.3	5080.3
35°	6197.3	6179.4	6087.8	5976.4	5848.9	5892.0	6310.5	7244.3	7251.5	6845.6	5337.1
37.5°	6773.8	6777.4	6705.5	6443.4	6312.3	6287.1	6603.2	7705.8	7860.2	7398.7	5669.4
40°	7253.3	7274.8	7274.8	6998.3	6802.5	6779.2	7014.4	8253.5	8560.6	8077.5	6089.6
42.5°	7617.8	7637.6	7700.4	7501.1	7294.6	7375.4	7513.7	8803.0	9354.4	8916.2	6621.1
45°	8018.3	8034.4	8068.6	7953.6	7833.3	8048.8	8079.3	9460.3	10263.0	9857.2	7238.9
47.5°	8549.8	8535.5	8539.1	8454.7	8361.3	8709.7	8702.5	10013.4	11141.2	10888.0	7908.7
50°	9210.7	9237.6	9212.5	9045.5	8935.9	9253.8	9295.1	10625.8	11913.4	11908.0	8584.0
52.5°	9846.4	9857.2	9990.1	9997.3	9772.8	9706.3	9814.1	11243.5	12565.3	12841.8	9232.2
55°	9878.7	9920.0	10318.7	10606.0	10968.8	10435.4	10338.5	11832.6	13195.6	13755.9	9905.7
57.5°	9190.9	9257.4	9934.4	10554.0	11563.2	11687.1	11236.4	12594.0	13825.9	14655.6	10685.1
60°	7722.0	7860.2	8779.7	9727.9	11295.6	12586.8	13073.5	13628.4	14653.8	15575.0	11631.4
62.5°	4931.3	4985.2	6274.6	7862.0	10090.6	12498.8	15074.0	15451.1	15914.4	16772.8	13089.6
65°	2469.2	2641.6	3397.7	4692.4	7276.6	11013.7	16085.0	18789.5	18222.1	18823.7	15452.9
67.5°	1675.5	1731.2	2113.7	2819.4	4266.8	7802.8	15458.3	21601.8	21434.8	21533.5	17972.4
70°	1235.5	1271.4	1573.1	1996.9	2580.6	4430.3	12306.7	21389.9	22530.2	22494.3	17708.5
72.5°	901.5	919.5	1147.5	1524.6	1912.5	2291.4	7515.5	17279.3	19667.7	20703.9	15487.0
75°	655.5	677.0	797.3	1140.3	1486.9	1429.5	3710.1	12480.9	14998.6	16991.9	12617.3
77.5°	488.5	515.4	571.1	714.7	1041.6	1023.6	1603.7	8104.5	9701.0	11098.1	7664.5
80°	352.0	357.4	389.7	457.9	660.9	599.8	763.2	4225.5	4845.1	5308.4	3004.4
82.5°	213.7	219.1	260.4	281.9	409.4	377.1	396.9	1368.4	1961.0	2081.3	1122.4
85°	62.9	66.4	118.5	129.3	170.6	161.6	159.8	556.7	664.4	849.4	441.8
87.5°	0.0	0.0	0.0	0.0	1.8	10.8	19.8	98.8	149.1	206.5	107.7
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°	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4
2.5°	2929.0	2887.7	2866.1	2828.4	2801.5	2774.5	2747.6	2722.4	2711.7	2695.5	2699.1
5°	2981.0	2916.4	2851.7	2778.1	2715.3	2663.2	2616.5	2575.2	2557.2	2541.1	2548.3
7.5°	3060.1	2963.1	2839.2	2704.5	2605.7	2533.9	2485.4	2456.7	2447.7	2435.1	2435.1
10°	3160.6	3015.2	2797.9	2605.7	2487.2	2429.7	2408.2	2406.4	2415.4	2417.2	2413.6
12.5°	3272.0	3065.4	2736.8	2489.0	2388.4	2370.5	2386.6	2417.2	2447.7	2463.8	2460.3
15°	3386.9	3097.8	2632.7	2377.6	2316.6	2339.9	2392.0	2453.1	2512.3	2542.9	2541.1
17.5°	3494.6	3105.0	2498.0	2269.9	2253.7	2313.0	2402.8	2498.0	2578.8	2621.9	2623.7
20°	3615.0	3092.4	2359.7	2172.9	2190.9	2287.9	2406.4	2521.3	2616.5	2659.6	2670.4
22.5°	3724.5	3049.3	2225.0	2081.3	2137.0	2257.3	2377.6	2485.4	2569.8	2611.1	2625.5
25°	3823.3	2966.7	2077.7	2004.1	2095.7	2214.2	2305.8	2381.2	2440.5	2465.6	2485.4
27.5°	3877.1	2842.8	1966.4	1943.1	2056.2	2153.2	2203.5	2226.8	2246.6	2239.4	2253.7
30°	3887.9	2688.3	1869.4	1894.6	1996.9	2068.8	2079.5	2056.2	2022.1	1966.4	1979.0
32.5°	3877.1	2510.5	1788.6	1842.5	1930.5	1973.6	1959.2	1898.2	1815.6	1729.4	1734.7
35°	3880.7	2331.0	1722.2	1785.0	1853.3	1876.6	1840.7	1756.3	1668.3	1589.3	1585.7
37.5°	3920.2	2180.1	1666.5	1729.4	1777.8	1781.4	1741.9	1653.9	1609.0	1549.8	1542.6
40°	4029.8	2068.8	1616.2	1673.7	1704.2	1702.4	1657.5	1594.7	1625.2	1605.5	1600.1
42.5°	4209.4	2000.5	1574.9	1614.4	1636.0	1639.6	1603.7	1564.1	1630.6	1605.5	1596.5
45°	4498.5	1996.9	1546.2	1555.2	1589.3	1614.4	1589.3	1544.4	1569.5	1447.4	1424.1
47.5°	4841.5	2058.0	1524.6	1503.1	1562.4	1607.2	1567.7	1495.9	1443.8	1332.5	1316.3
50°	5254.5	2181.9	1504.9	1447.4	1522.8	1580.3	1540.8	1442.0	1363.0	1303.8	1294.8
52.5°	5744.8	2345.3	1479.7	1384.6	1463.6	1565.9	1540.8	1436.6	1332.5	1278.6	1269.6
55°	6258.4	2533.9	1451.0	1309.1	1397.1	1569.5	1553.4	1398.9	1309.1	1280.4	1273.2
57.5°	6895.9	2760.2	1398.9	1221.1	1337.9	1537.2	1503.1	1377.4	1293.0	1269.6	1262.5
60°	7723.8	3096.0	1300.2	1131.4	1269.6	1479.7	1458.2	1341.5	1249.9	1230.1	1224.7
62.5°	9034.7	3665.2	1179.8	1045.2	1188.8	1359.4	1391.8	1273.2	1196.0	1194.2	1192.4
65°	11171.7	4349.4	1038.0	967.9	1104.4	1260.7	1303.8	1203.2	1140.3	1160.1	1158.3
67.5°	12669.4	4408.7	921.2	887.1	1005.7	1152.9	1215.8	1131.4	1063.1	1100.8	1099.0
70°	11604.5	3439.0	820.7	802.7	899.7	1036.2	1120.6	1041.6	973.3	1009.2	1002.1
72.5°	9787.1	2636.2	725.5	714.7	792.0	914.1	998.5	951.8	879.9	879.9	863.8
75°	7865.6	2174.7	624.9	619.6	671.6	790.2	885.3	806.3	739.9	736.3	725.5
77.5°	4511.1	1425.9	524.4	520.8	536.9	660.9	687.8	671.6	621.3	598.0	590.8
80°	1797.6	741.7	413.0	389.7	405.9	484.9	542.3	515.4	472.3	443.6	427.4
82.5°	696.8	371.7	290.9	255.0	278.4	350.2	393.3	384.3	355.6	290.9	273.0
85°	283.7	181.4	174.2	147.3	161.6	188.6	226.3	195.7	161.6	114.9	109.5
87.5°	75.4	66.4	64.6	39.5	30.5	9.0	1.8	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)