

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: P640208

Luminaire Tested: GWS-SA5D-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

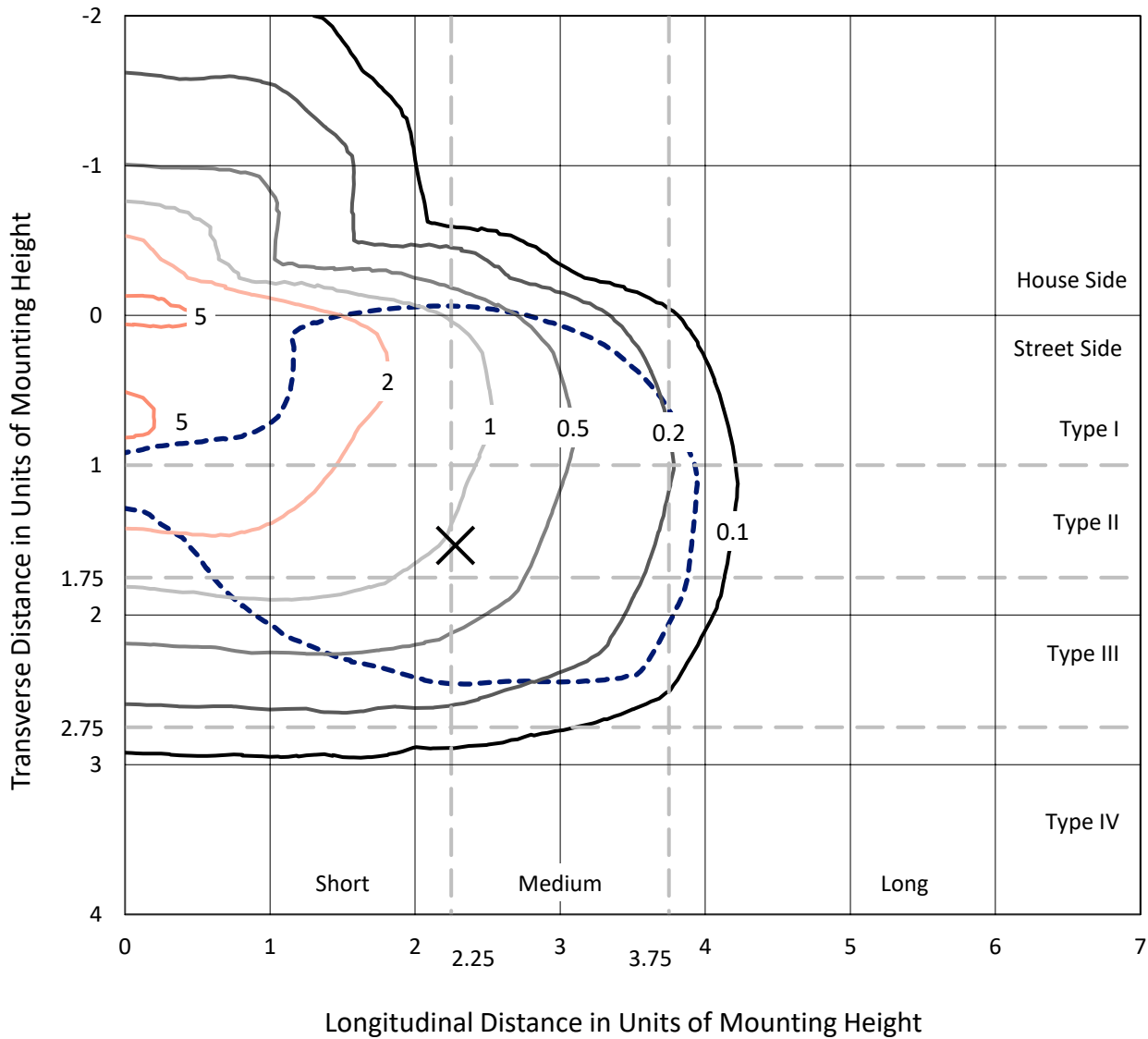
Lumens per Lamp: N/A  
Luminaire Lumens: 30120.9 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

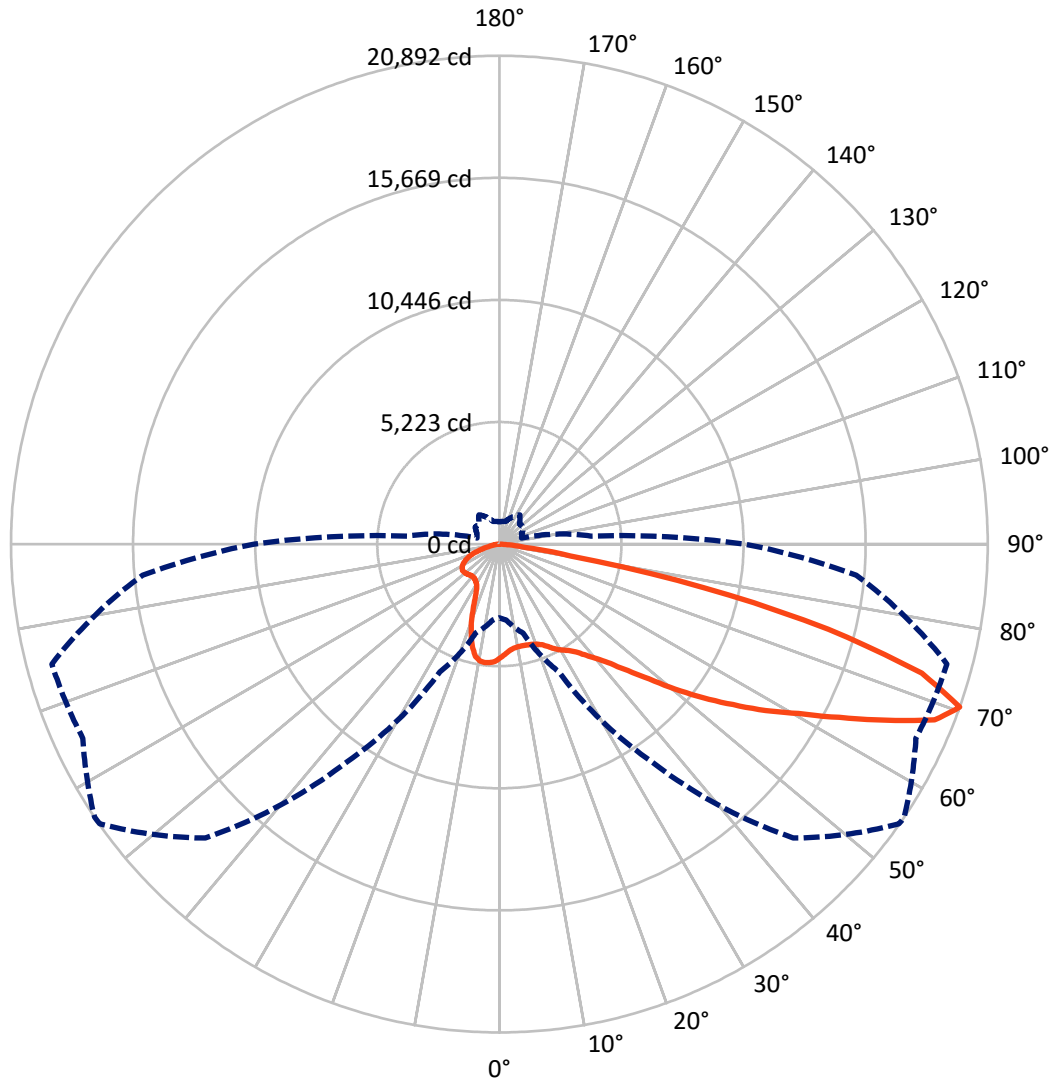
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5790.8	0.0	5790.8
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	24330.1	0.0	24330.1
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	30120.9	0.0	30120.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.9	1.5
10°-20°	1219.1	4.0
20°-30°	2015.5	6.7
30°-40°	3013.4	10.0
40°-50°	4484.3	14.9
50°-60°	6375.4	21.2
60°-70°	7896.2	26.2
70°-80°	4360.0	14.5
80°-90°	307.1	1.0
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°	30120.9	100.0
0°-180°	30120.9	100.0

**Coefficient of Utilization**



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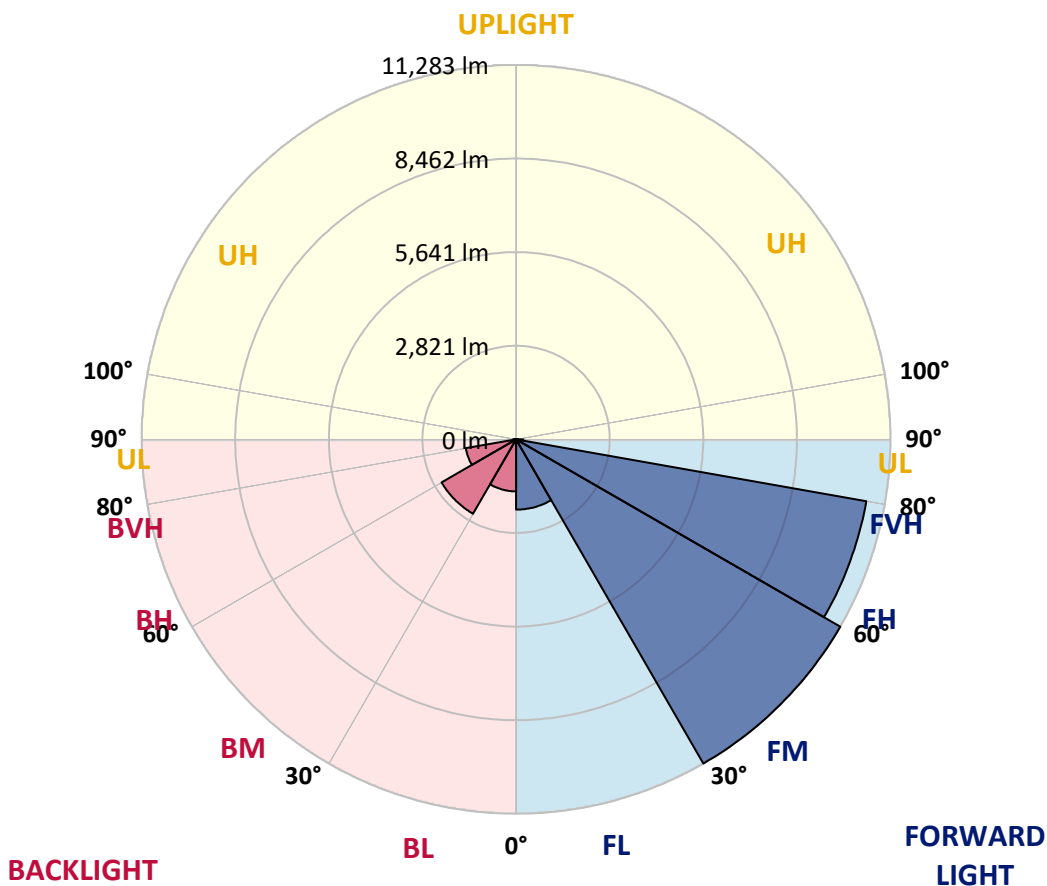
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.9	7.0			
FM (30°-60°)	11282.8	37.5			
FH (60°-80°)	10717.0	35.6			G4/12000
FVH (80°-90°)	213.4	0.7			G2/225
BL (0°-30°)	1567.6	5.2	B3/2500		
BM (30°-60°)	2590.3	8.6	B3/5000		
BH (60°-80°)	1539.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	93.7	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0
2.5°	4549.7	4524.3	4554.0	4568.9	4607.1	4662.3	4711.2	4713.3	4738.8	4800.4	4859.9
5°	4343.7	4331.0	4339.5	4384.1	4424.4	4494.5	4568.9	4575.2	4647.4	4768.5	4887.5
7.5°	4184.4	4167.4	4199.3	4256.6	4307.6	4386.2	4483.9	4492.4	4594.3	4777.0	4959.7
10°	3955.0	3942.3	4001.7	4078.2	4188.6	4318.2	4447.8	4458.4	4592.2	4832.2	5087.1
12.5°	3855.2	3855.2	3880.7	3952.9	4073.9	4246.0	4441.4	4458.4	4626.2	4917.2	5250.7
15°	4010.2	4020.8	3999.6	3995.4	4044.2	4207.8	4449.9	4475.4	4689.9	5004.3	5412.1
17.5°	4322.5	4333.1	4277.9	4190.8	4141.9	4243.9	4481.8	4509.4	4757.9	5099.9	5586.3
20°	4760.0	4772.8	4651.7	4517.9	4350.1	4348.0	4543.4	4568.9	4845.0	5204.0	5771.1
22.5°	5271.9	5280.4	5127.5	4915.1	4658.1	4541.2	4649.6	4675.1	4957.6	5348.4	5970.7
25°	5864.5	5890.0	5705.2	5397.2	5048.9	4806.8	4825.9	4855.6	5159.3	5541.7	6206.5
27.5°	6497.5	6529.4	6317.0	5977.1	5497.1	5099.9	5053.1	5078.6	5373.9	5660.6	6331.8
30°	7145.3	7168.7	6956.3	6567.6	5979.2	5431.2	5244.3	5259.2	5467.3	5718.0	6459.3
32.5°	7865.4	7846.3	7642.4	7194.2	6535.7	5828.4	5422.7	5418.5	5571.4	5832.7	6641.9
35°	8540.9	8568.5	8351.8	7856.9	7147.5	6319.1	5690.4	5673.4	5792.3	6019.6	6899.0
37.5°	9358.6	9350.1	9091.0	8555.7	7761.3	6788.5	6066.3	6036.6	6079.1	6310.6	7257.9
40°	9942.7	10002.2	9834.4	9335.2	8479.3	7366.2	6506.0	6440.2	6450.8	6669.6	7738.0
42.5°	10420.6	10475.9	10492.9	10174.3	9301.3	8079.9	7054.0	6988.2	6994.5	7304.6	8328.4
45°	10788.1	10862.5	11102.5	11009.0	10227.4	8904.1	7795.3	7727.3	7731.6	8075.7	9042.1
47.5°	10938.9	11019.6	11506.0	11729.1	11210.8	9889.6	8717.1	8617.3	8632.2	9012.4	9857.8
50°	10890.1	10998.4	11656.8	12283.4	12034.9	10892.2	9819.5	9749.4	9692.1	10244.3	10743.5
52.5°	10469.5	10588.4	11642.0	12636.0	12708.3	11839.5	10958.0	10917.7	10904.9	11552.8	11733.3
55°	9231.2	9430.8	11130.1	12729.5	13235.0	12731.6	12192.1	12124.1	12190.0	12954.7	12733.7
57.5°	8545.1	8693.8	10127.5	12625.4	13666.2	13581.2	13424.1	13430.4	13504.8	14477.6	13946.6
60°	8154.3	8328.4	9571.0	12340.8	14080.4	14613.5	14713.4	14713.4	14847.2	16119.5	15178.5
62.5°	7636.0	7812.3	9050.6	11792.8	14462.7	15828.5	16334.0	16327.7	16380.8	17880.3	16382.9
65°	6584.6	6748.1	8005.6	10928.3	14649.7	17166.7	18175.6	18156.5	18050.3	19447.9	17179.4
67.5°	4781.3	4936.3	6132.2	9284.3	13976.3	18245.7	20072.4	20080.9	19445.8	20435.6	17221.9
70°	3152.1	3258.3	3942.3	6030.2	11365.9	17780.5	20866.8	20892.3	19660.3	19819.6	15327.2
72.5°	1966.9	2041.2	2461.8	3596.0	6716.3	14074.0	18827.7	18897.8	17687.1	17417.3	12593.6
75°	1306.3	1357.3	1637.7	2096.4	3107.5	7616.9	14311.9	14537.1	14176.0	13653.5	8774.5
77.5°	785.9	828.4	1042.9	1331.8	1376.4	2975.8	8353.9	8935.9	8986.9	7128.4	3674.6
80°	359.0	407.8	575.6	760.4	732.8	1036.5	2946.1	3082.0	3636.4	2264.2	1159.7
82.5°	212.4	233.6	382.3	378.1	312.2	503.4	1059.9	1087.5	924.0	828.4	494.9
85°	85.0	99.8	161.4	142.3	114.7	163.6	399.3	418.4	401.4	361.1	182.7
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	36.1	38.2	55.2	99.8	55.2
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°	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0	4862.0
2.5°	4898.1	4885.3	4949.1	4997.9	5019.2	5040.4	5021.3	5014.9	5014.9	4972.4	4951.2
5°	4951.2	4957.6	5044.6	5085.0	5085.0	5068.0	5017.0	4980.9	4968.2	4913.0	4898.1
7.5°	5051.0	5078.6	5159.3	5157.2	5097.7	5004.3	4876.8	4779.1	4689.9	4651.7	4628.3
10°	5214.6	5250.7	5305.9	5216.7	5051.0	4804.6	4534.9	4322.5	4195.0	4093.1	4093.1
12.5°	5401.5	5435.5	5424.9	5218.8	4876.8	4415.9	4027.2	3783.0	3604.5	3511.1	3511.1
15°	5588.4	5616.0	5501.3	5121.1	4513.6	3899.8	3475.0	3181.8	3026.8	2939.7	2939.7
17.5°	5777.4	5775.3	5533.2	4896.0	4040.0	3328.4	2912.1	2684.8	2631.7	2616.8	2614.7
20°	5960.1	5911.3	5492.8	4520.0	3489.8	2752.8	2489.4	2504.3	2582.9	2616.8	2621.1
22.5°	6166.2	6045.1	5373.9	4040.0	2865.4	2353.5	2370.5	2493.6	2608.3	2659.3	2665.7
25°	6376.4	6159.8	5174.2	3477.1	2342.8	2206.9	2338.6	2476.7	2606.2	2672.1	2678.4
27.5°	6461.4	6159.8	4834.4	2825.0	2064.6	2145.3	2289.7	2423.6	2559.5	2636.0	2650.8
30°	6531.5	6106.7	4358.6	2236.6	1949.9	2085.8	2211.1	2334.3	2468.2	2561.6	2578.6
32.5°	6629.2	6059.9	3783.0	1879.8	1896.8	2028.5	2115.6	2219.6	2340.7	2402.3	2395.9
35°	6743.9	5987.7	3088.4	1709.9	1852.2	1979.6	2041.2	2102.8	2047.6	2045.5	2051.8
37.5°	6907.4	5924.0	2483.0	1633.4	1822.4	1945.6	1996.6	1864.9	1788.5	1756.6	1743.9
40°	7143.2	5898.5	1958.4	1588.8	1818.2	1943.5	1907.4	1703.5	1599.4	1489.0	1486.8
42.5°	7440.6	5879.4	1618.5	1567.6	1833.1	1992.4	1784.2	1597.3	1382.8	1333.9	1329.7
45°	7822.9	5849.7	1448.6	1563.3	1869.2	2030.6	1771.5	1450.7	1304.2	1282.9	1282.9
47.5°	8283.8	5802.9	1372.1	1563.3	1909.5	2013.6	1733.2	1418.9	1268.1	1291.4	1306.3
50°	8812.7	5743.5	1331.8	1559.1	1949.9	2013.6	1652.5	1412.5	1259.6	1380.6	1429.5
52.5°	9377.7	5675.5	1304.2	1542.1	1977.5	2015.7	1656.8	1433.7	1268.1	1401.9	1442.2
55°	10002.2	5664.9	1265.9	1506.0	1986.0	1960.5	1667.4	1480.5	1280.8	1270.2	1272.3
57.5°	10790.2	5792.3	1238.3	1452.9	1952.0	1847.9	1688.6	1514.5	1265.9	1268.1	1282.9
60°	11614.4	6032.3	1261.7	1401.9	1881.9	1741.7	1703.5	1497.5	1193.7	1159.7	1164.0
62.5°	12315.3	6215.0	1280.8	1378.5	1780.0	1648.3	1688.6	1459.2	1153.4	1144.9	1164.0
65°	12608.4	6064.2	1234.1	1329.7	1631.3	1533.6	1656.8	1410.4	1119.4	1087.5	1089.6
67.5°	12283.4	5356.9	1142.7	1221.3	1463.5	1387.0	1605.8	1346.7	1072.7	1034.4	1025.9
70°	10492.9	3935.9	985.6	1049.3	1259.6	1215.0	1527.2	1263.8	998.3	970.7	951.6
72.5°	8455.9	2786.8	817.8	834.8	987.7	1023.8	1391.3	1159.7	913.3	834.8	807.1
75°	5885.8	1750.2	681.8	664.8	713.7	781.7	1085.4	962.2	788.0	705.2	679.7
77.5°	2531.9	898.5	533.1	524.6	475.8	541.6	832.6	802.9	660.6	565.0	550.1
80°	847.5	520.4	384.5	369.6	316.5	380.2	586.2	641.5	518.3	418.4	393.0
82.5°	424.8	301.6	244.3	220.9	212.4	240.0	346.2	399.3	359.0	288.9	244.3
85°	208.2	172.0	133.8	131.7	110.5	104.1	144.4	169.9	161.4	118.9	112.6
87.5°	76.5	68.0	42.5	34.0	21.2	14.9	8.5	8.5	6.4	6.4	6.4
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)