

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: P639730

Luminaire Tested: GWS-SA5C-740-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-740-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

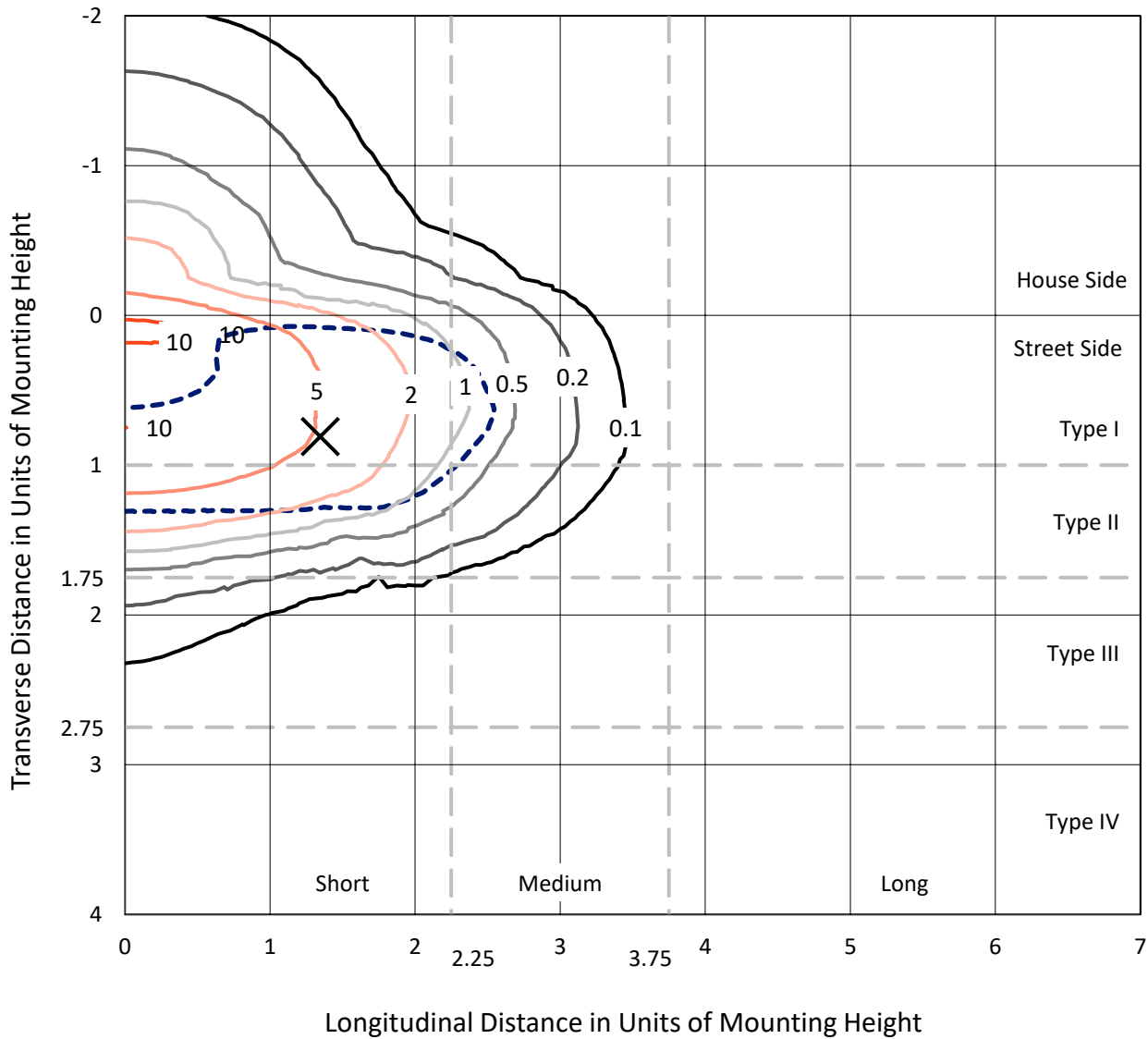
Lumens per Lamp: N/A  
Luminaire Lumens: 24248.6 lumens  
Efficiency: N/A  
Efficacy: 154.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

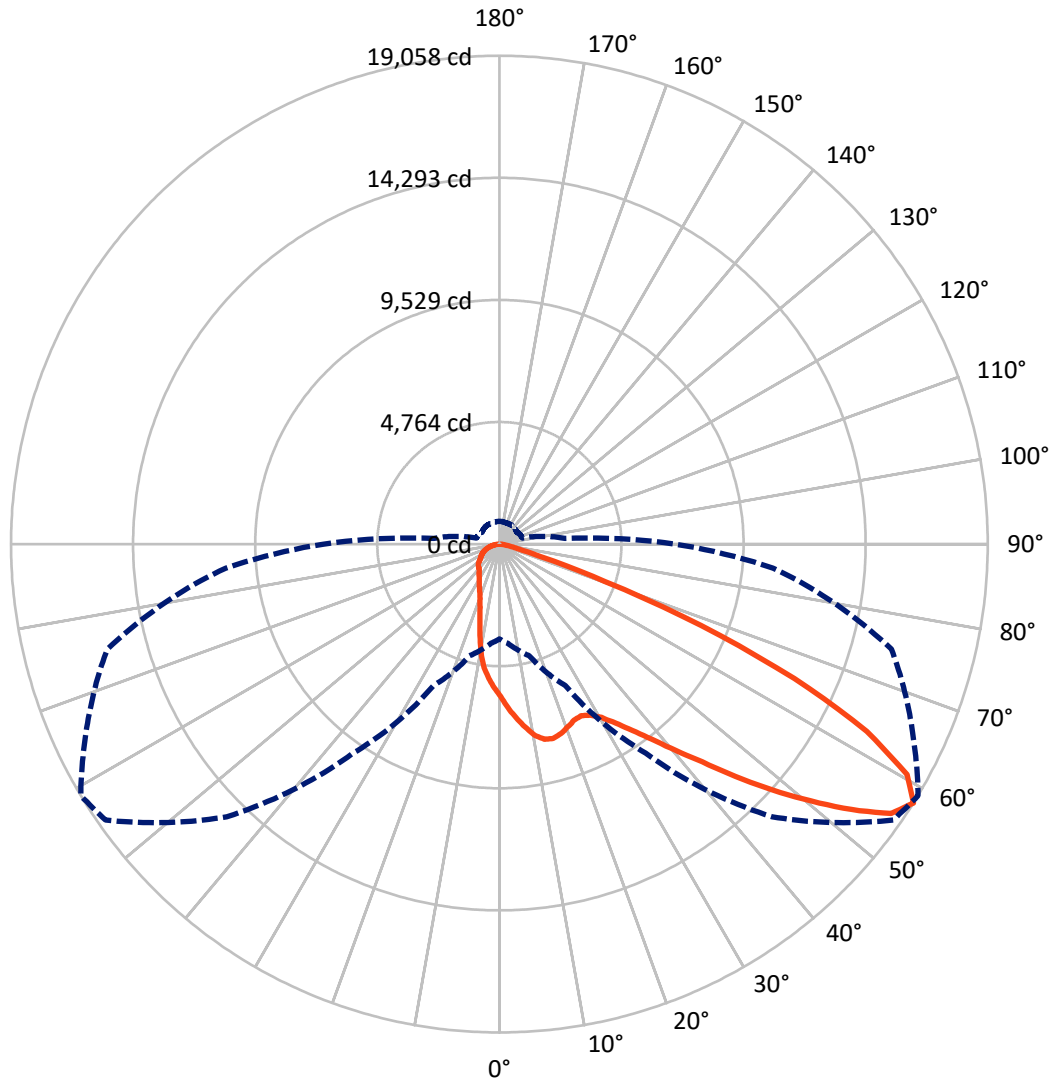
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3763.3	0.0	3763.3
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	20485.3	0.0	20485.3
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	24248.6	0.0	24248.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.7	2.3
10°-20°	1400.6	5.8
20°-30°	2270.3	9.4
30°-40°	3652.1	15.1
40°-50°	5671.4	23.4
50°-60°	6108.8	25.2
60°-70°	3545.3	14.6
70°-80°	925.5	3.8
80°-90°	121.9	0.5
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°	24248.6	100.0
0°-180°	24248.6	100.0

**Coefficient of Utilization**



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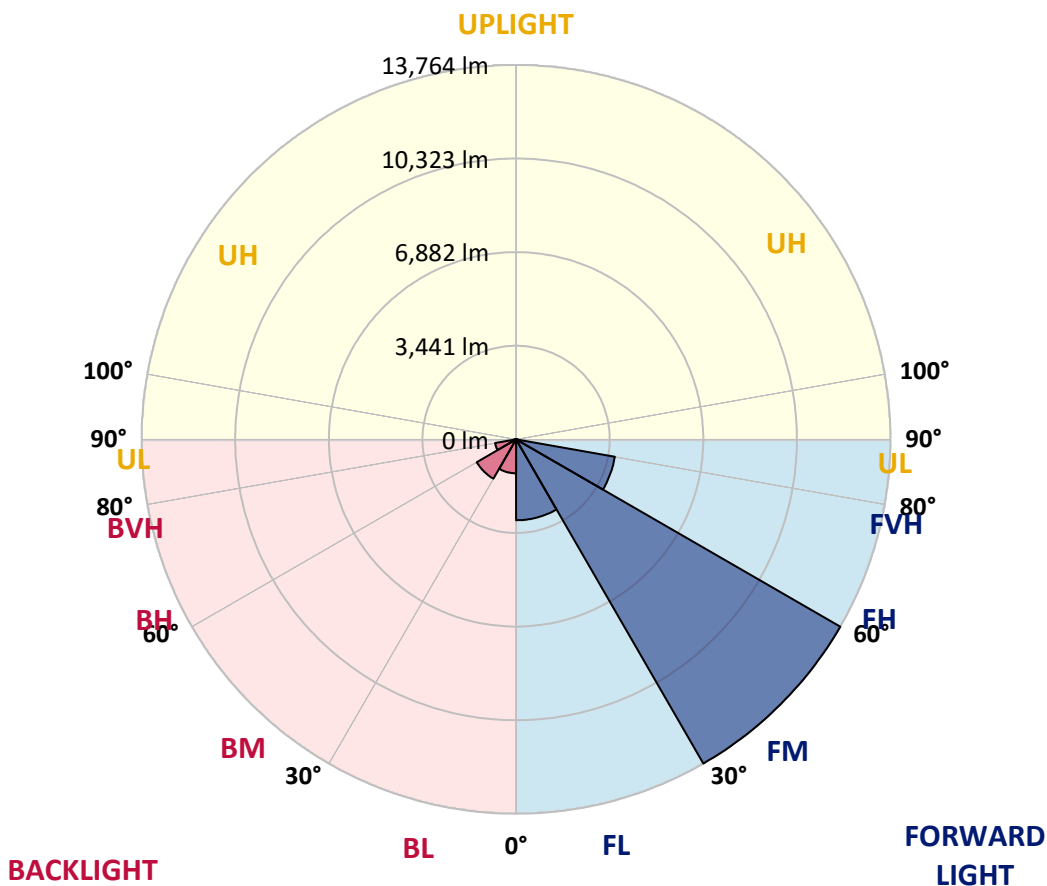
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2975.1	12.3			
FM (30°-60°)	13763.8	56.8			
FH (60°-80°)	3688.1	15.2			G2/5000
FVH (80°-90°)	58.4	0.2			G1/100
BL (0°-30°)	1248.5	5.1	B3/2500		
BM (30°-60°)	1668.5	6.9	B2/2500		
BH (60°-80°)	782.7	3.2	B2/1000		G2/1000
BVH (80°-90°)	63.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5
2.5°	6751.5	6695.1	6734.4	6664.4	6635.4	6558.6	6459.5	6393.0	6290.5	6157.4	6041.3
5°	7422.3	7383.1	7391.6	7316.5	7249.9	7121.9	6918.7	6806.1	6632.0	6363.9	6114.7
7.5°	7401.8	7447.9	7473.5	7538.4	7557.2	7545.2	7362.6	7205.5	7014.3	6611.5	6235.9
10°	6635.4	6722.4	6801.0	7022.9	7292.6	7634.0	7676.7	7582.8	7389.9	6927.3	6381.0
12.5°	5800.6	5867.2	5937.2	6203.5	6616.6	7299.4	7762.0	7820.1	7743.3	7239.7	6544.9
15°	5390.9	5421.6	5488.2	5664.1	5993.5	6751.5	7613.5	7867.9	8006.1	7570.8	6729.3
17.5°	5373.9	5387.5	5419.9	5513.8	5742.6	6328.1	7345.5	7772.3	8212.7	7920.8	6944.4
20°	5727.2	5691.4	5670.9	5669.2	5781.8	6186.4	7086.0	7618.6	8310.0	8279.3	7174.8
22.5°	6217.1	6229.1	6184.7	6075.5	6061.8	6287.1	6956.3	7463.3	8339.0	8596.8	7388.2
25°	6911.9	6971.7	6840.2	6632.0	6529.5	6579.0	7036.5	7415.5	8335.6	8861.4	7521.3
27.5°	7722.8	7768.9	7635.7	7362.6	7150.9	7031.4	7275.5	7557.2	8364.6	9090.1	7601.6
30°	8646.3	8661.7	8479.0	8192.2	7883.2	7627.2	7673.3	7849.1	8513.1	9390.6	7695.5
32.5°	9774.7	9839.5	9563.0	9108.9	8677.0	8349.3	8207.6	8320.2	8834.1	9745.7	7840.6
35°	11206.9	11229.1	10877.4	10227.0	9615.9	9161.8	8864.8	8924.6	9322.3	10242.4	8059.1
37.5°	12557.2	12579.4	12205.5	11601.2	10727.2	10105.8	9675.7	9648.3	9947.1	10944.0	8415.8
40°	13414.1	13477.3	13310.0	12931.0	12096.3	11258.1	10674.3	10580.4	10766.5	11802.7	8912.6
42.5°	13875.0	13902.4	13898.9	13948.5	13451.7	12618.6	11801.0	11613.2	11737.8	12729.6	9414.5
45°	13878.5	13946.7	14129.4	14605.7	14627.9	14108.9	13224.7	12931.0	12816.7	13663.4	9938.6
47.5°	13257.1	13330.5	13832.4	14769.6	15460.9	15578.7	14930.0	14341.1	13859.7	14467.4	10368.7
50°	11375.9	11560.3	12516.2	14173.8	15624.8	16756.6	16556.9	15757.9	14786.6	15088.8	10638.4
52.5°	9742.2	9735.4	10324.3	12490.6	14940.3	17275.5	18130.8	17215.8	15703.3	15483.1	10706.7
55°	7133.8	7173.1	7775.7	9552.8	13113.7	16773.7	18996.3	18557.5	16754.9	15693.1	10679.4
57.5°	3699.2	3893.8	4511.8	6095.9	9964.2	15046.1	18765.8	19057.7	17823.5	15841.6	10715.3
60°	1869.2	1831.7	2053.6	2910.6	5773.3	11751.5	17345.5	18275.9	18016.4	15957.7	10737.5
62.5°	1247.9	1237.6	1176.2	1348.6	2359.2	6959.7	14786.6	16090.8	16676.3	15684.5	10454.1
65°	1080.6	1060.1	947.4	940.6	1145.4	2886.7	10838.2	12649.4	13782.9	14470.8	9776.4
67.5°	973.0	942.3	827.9	771.6	822.8	1268.4	6107.9	8484.1	10177.5	12238.0	8291.2
70°	868.9	853.5	739.2	657.2	652.1	773.3	2249.9	4378.6	6227.4	8349.3	6061.8
72.5°	778.4	751.1	653.8	575.3	536.0	548.0	976.4	1686.6	3222.9	5208.3	3625.8
75°	674.3	653.8	568.5	489.9	442.1	401.2	595.8	780.1	1469.8	2475.2	1712.2
77.5°	520.7	507.0	449.0	389.2	361.9	298.7	361.9	491.6	679.4	1043.0	891.1
80°	302.2	310.7	334.6	303.9	266.3	213.4	235.6	283.4	408.0	565.0	505.3
82.5°	151.9	162.2	216.8	175.8	158.8	124.6	140.0	167.3	213.4	312.4	198.0
85°	11.9	11.9	39.3	44.4	54.6	44.4	56.3	68.3	97.3	124.6	66.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	8.5	15.4	29.0	18.8
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°	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5	5952.5
2.5°	5962.8	5875.7	5771.6	5686.2	5554.8	5484.8	5396.0	5286.8	5242.4	5221.9	5210.0
5°	5974.7	5821.1	5599.2	5394.3	5167.3	4988.1	4788.3	4580.1	4460.6	4431.5	4411.1
7.5°	6019.1	5804.0	5450.7	5112.7	4691.0	4300.1	3919.4	3542.2	3349.3	3275.9	3269.0
10°	6080.6	5797.2	5300.4	4738.8	4027.0	3409.0	2963.5	2668.1	2543.5	2502.6	2488.9
12.5°	6157.4	5792.1	5102.4	4219.9	3260.5	2676.7	2422.3	2374.5	2391.6	2388.2	2388.2
15°	6254.7	5798.9	4863.4	3632.6	2637.4	2323.3	2328.4	2384.8	2437.7	2446.2	2446.2
17.5°	6360.5	5792.1	4516.9	3043.7	2263.6	2239.7	2318.2	2396.7	2444.5	2451.3	2451.3
20°	6474.9	5759.6	4079.9	2488.9	2099.7	2186.8	2272.1	2333.6	2362.6	2369.4	2369.4
22.5°	6543.2	5667.5	3605.3	2106.5	1995.6	2103.1	2159.4	2222.6	2226.0	2171.4	2169.7
25°	6532.9	5495.1	3064.2	1860.7	1884.6	1978.5	2050.2	2005.8	1951.2	1920.5	1915.3
27.5°	6468.1	5235.6	2512.8	1674.6	1753.2	1859.0	1836.8	1799.2	1785.6	1751.5	1748.0
30°	6386.1	4916.4	2017.8	1529.5	1616.6	1713.9	1679.8	1676.3	1662.7	1625.1	1625.1
32.5°	6307.6	4586.9	1643.9	1422.0	1529.5	1536.4	1584.2	1587.6	1580.7	1515.9	1509.0
35°	6285.4	4257.4	1391.3	1336.6	1444.2	1440.8	1509.0	1507.3	1389.6	1299.1	1297.4
37.5°	6352.0	3922.8	1241.0	1266.6	1326.4	1370.8	1425.4	1326.4	1287.1	1232.5	1229.1
40°	6493.7	3613.9	1164.2	1225.7	1251.3	1316.1	1230.8	1237.6	1227.4	1186.4	1181.3
42.5°	6681.5	3351.0	1121.5	1212.0	1208.6	1225.7	1131.8	1159.1	1174.5	1143.7	1138.6
45°	6862.4	3122.2	1099.4	1160.8	1177.9	1078.9	1060.1	1085.7	1109.6	1097.6	1092.5
47.5°	6995.6	2924.2	1087.4	1090.8	1138.6	1029.4	998.6	1010.6	1039.6	1044.7	1043.0
50°	7036.5	2755.2	1073.7	1032.8	1022.5	979.9	956.0	952.5	986.7	1010.6	1014.0
52.5°	6958.0	2605.0	1037.9	981.6	932.1	938.9	930.4	913.3	947.4	979.9	983.3
55°	6841.9	2519.6	981.6	932.1	874.0	901.3	904.7	889.4	911.6	933.8	933.8
57.5°	6850.5	2569.1	926.9	886.0	822.8	858.7	877.4	870.6	870.6	887.7	889.4
60°	6906.8	2640.8	891.1	827.9	771.6	809.2	851.8	845.0	829.6	851.8	851.8
62.5°	6744.6	2545.2	867.2	771.6	717.0	761.4	812.6	809.2	792.1	827.9	831.3
65°	6266.6	2289.2	839.9	701.6	662.3	713.6	757.9	769.9	754.5	802.3	810.9
67.5°	5252.6	1925.6	787.0	635.0	607.7	655.5	698.2	715.3	703.3	759.6	766.5
70°	3916.0	1558.6	703.3	561.6	541.1	583.8	623.1	629.9	631.6	698.2	705.0
72.5°	2497.4	1212.0	592.4	479.7	464.3	496.8	525.8	553.1	565.0	628.2	626.5
75°	1393.0	901.3	476.3	406.3	379.0	404.6	438.7	471.2	505.3	597.5	607.7
77.5°	802.3	633.3	377.3	326.1	293.6	320.9	349.9	396.0	498.5	578.7	568.5
80°	452.4	411.4	285.1	239.0	218.5	239.0	261.2	348.2	392.6	426.8	431.9
82.5°	211.7	230.5	194.6	146.8	146.8	160.5	180.9	269.7	297.0	242.4	211.7
85°	76.8	104.1	95.6	75.1	66.6	64.9	112.7	153.6	95.6	85.4	73.4
87.5°	20.5	29.0	27.3	18.8	10.2	8.5	0.0	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)