

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: P638203

Luminaire Tested: GWS-SA4E-735-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-735-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

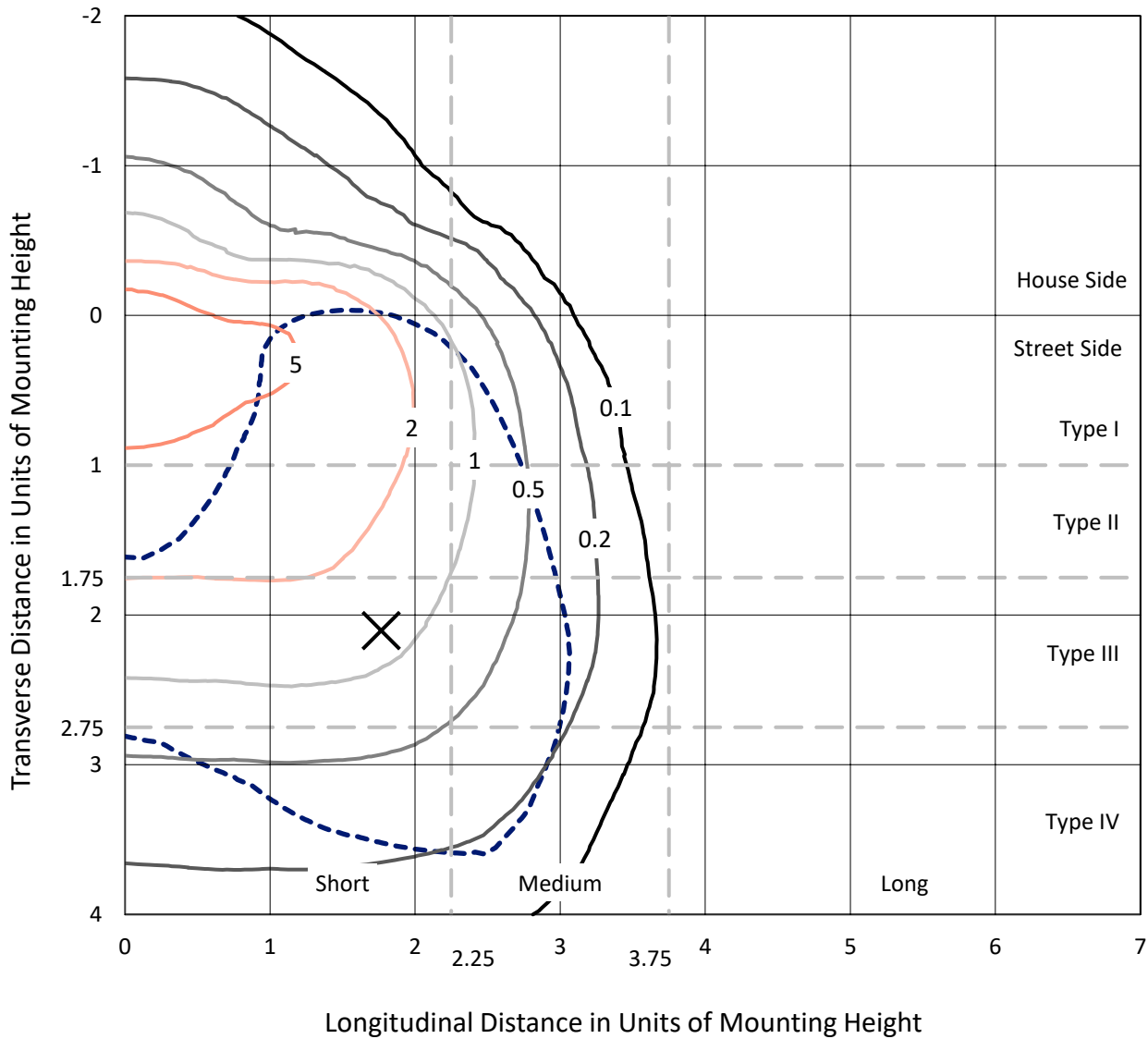
Lumens per Lamp: N/A  
Luminaire Lumens: 28987.7 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

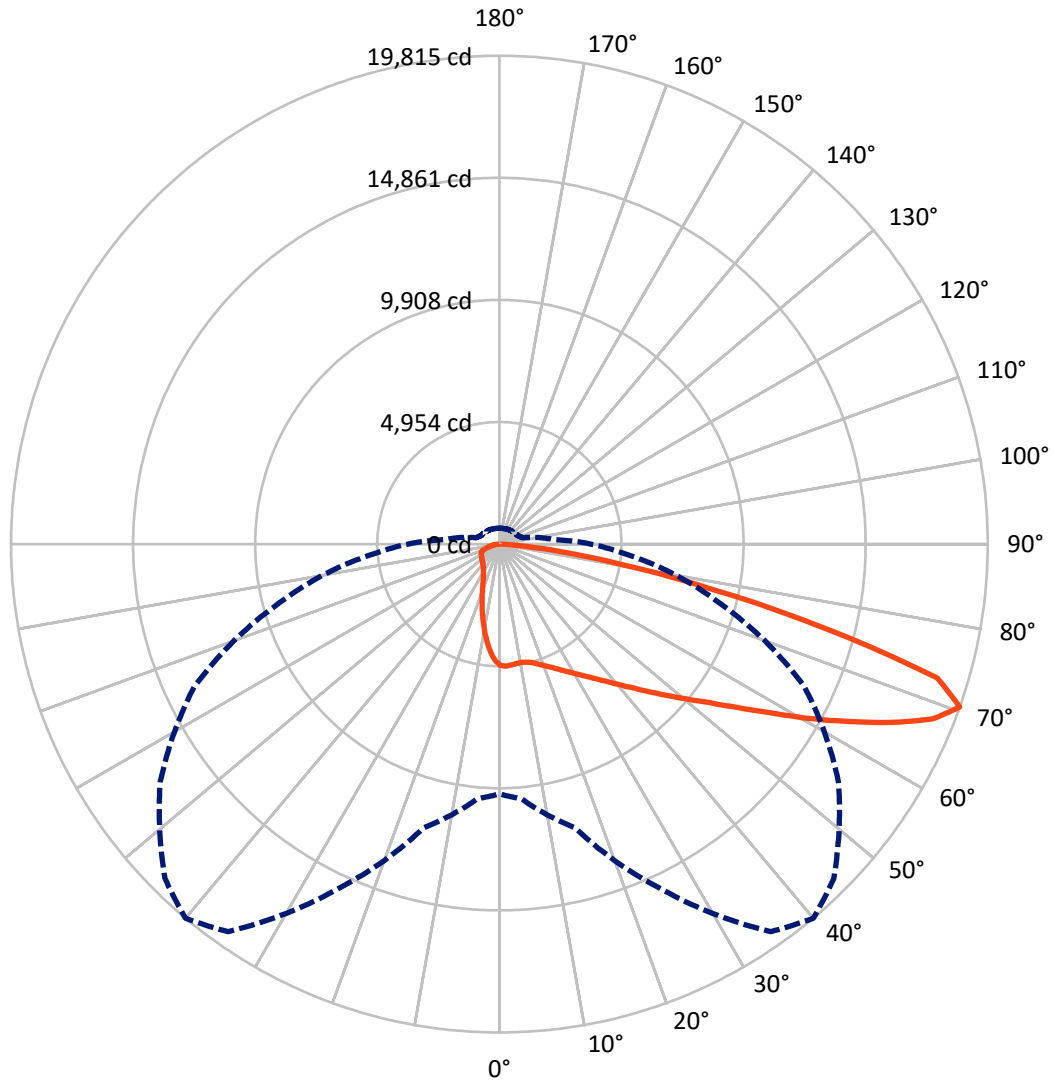
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4464.8	0.0	4464.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	24522.9	0.0	24522.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	28987.7	0.0	28987.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.9	1.5
10°-20°	1133.5	3.9
20°-30°	1779.8	6.1
30°-40°	2676.0	9.2
40°-50°	4130.4	14.2
50°-60°	6134.0	21.2
60°-70°	7731.8	26.7
70°-80°	4471.2	15.4
80°-90°	496.2	1.7
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°	28987.7	100.0
0°-180°	28987.7	100.0

**Coefficient of Utilization**



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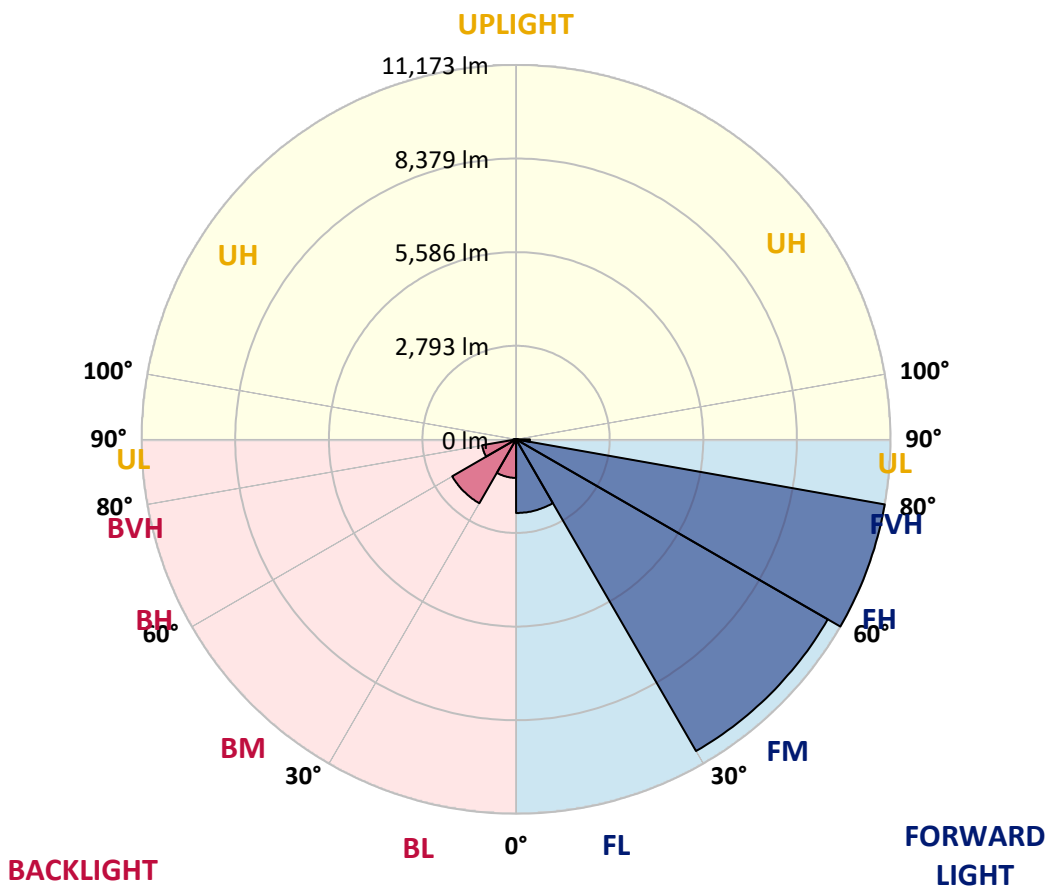
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.5	7.6			
FM (30°-60°)	10739.6	37.0			
FH (60°-80°)	11172.5	38.5			G4/12000
FVH (80°-90°)	413.3	1.4			G3/500
BL (0°-30°)	1150.6	4.0	B3/2500		
BM (30°-60°)	2200.8	7.6	B2/2500		
BH (60°-80°)	1030.5	3.6	B3/2500		G3/2500
BVH (80°-90°)	82.9	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4
2.5°	4952.7	4961.4	4967.9	4976.5	4972.2	4959.2	4970.0	4970.0	4946.2	4920.3	4896.5
5°	4959.2	4970.0	4967.9	4965.7	4948.4	4926.8	4926.8	4913.8	4872.7	4831.6	4792.6
7.5°	4946.2	4944.1	4941.9	4935.4	4916.0	4892.2	4887.8	4861.9	4807.8	4751.5	4695.3
10°	4887.8	4885.7	4892.2	4907.3	4903.0	4881.3	4881.3	4857.5	4794.8	4725.5	4652.0
12.5°	4840.2	4840.2	4866.2	4907.3	4922.4	4913.8	4916.0	4898.6	4827.2	4745.0	4658.5
15°	4846.7	4848.9	4905.1	4972.2	5000.3	4993.8	4996.0	4976.5	4896.5	4814.3	4697.4
17.5°	4890.0	4900.8	4998.2	5091.2	5128.0	5119.3	5104.2	5071.7	4980.9	4887.8	4745.0
20°	4980.9	4998.2	5123.7	5240.5	5283.8	5264.3	5238.3	5173.4	5073.9	4972.2	4796.9
22.5°	5160.5	5171.3	5309.7	5424.4	5459.0	5435.2	5383.3	5290.3	5175.6	5069.6	4859.7
25°	5413.6	5426.6	5558.6	5664.6	5655.9	5627.8	5556.4	5441.7	5305.4	5192.9	4950.6
27.5°	5714.4	5736.0	5865.8	5950.2	5894.0	5852.8	5772.8	5634.3	5480.7	5379.0	5089.0
30°	6043.2	6051.9	6162.3	6246.6	6160.1	6103.8	6006.5	5857.2	5718.7	5643.0	5296.8
32.5°	6361.3	6370.0	6465.2	6512.8	6421.9	6380.8	6296.4	6138.4	6041.1	6000.0	5606.2
35°	6696.7	6694.5	6772.4	6813.5	6720.5	6703.2	6616.6	6495.5	6478.2	6532.2	6058.4
37.5°	7032.1	7012.6	7053.7	7107.8	7055.9	7073.2	7016.9	6975.8	7042.9	7183.5	6659.9
40°	7300.4	7300.4	7343.6	7410.7	7428.0	7503.8	7471.3	7525.4	7741.8	8077.1	7404.2
42.5°	7538.4	7540.5	7631.4	7735.3	7860.8	7977.6	8003.6	8144.2	8592.1	9117.9	8338.9
45°	7787.2	7789.4	7912.7	8064.2	8330.3	8553.2	8605.1	8921.0	9561.4	10201.9	9353.7
47.5°	8075.0	8051.2	8222.1	8475.3	8853.9	9174.1	9308.3	9756.2	10565.4	11353.0	10310.1
50°	8399.5	8349.8	8540.2	8977.2	9444.6	9883.8	10108.9	10621.7	11642.9	12415.4	11210.2
52.5°	8765.2	8737.1	8936.1	9468.4	10182.4	10688.7	10993.8	11666.7	12690.2	13473.4	11924.2
55°	9219.6	9152.5	9440.3	10117.5	11047.9	11692.7	12054.0	12701.0	13834.8	14434.1	12469.5
57.5°	9717.2	9643.7	10028.8	10928.9	12173.0	12880.6	13332.8	13865.1	14912.3	15169.8	12789.7
60°	10253.8	10230.0	10686.6	11880.9	13514.5	14336.8	14663.5	15146.0	15849.2	15596.0	12709.6
62.5°	10745.0	10736.3	11400.6	12913.0	14936.1	15840.5	16100.2	16227.8	16524.3	15567.9	12073.5
65°	11262.1	11335.7	12233.6	14109.6	16565.4	17452.5	17560.7	17236.1	16751.5	14830.1	10771.0
67.5°	11327.0	11469.8	12757.2	15230.4	18110.3	18947.6	18861.1	17619.1	16080.7	12776.7	8442.8
70°	10130.5	10379.3	11922.1	15401.3	19198.6	19815.3	19190.0	16794.7	13646.5	9256.4	5309.7
72.5°	8464.4	8678.6	10041.8	13133.7	17794.4	18579.8	17733.8	14215.6	9643.7	5309.7	2704.6
75°	6588.5	6837.3	8094.4	10439.9	13322.0	13635.7	13211.6	9914.1	5301.1	2189.7	1229.0
77.5°	4020.2	4199.8	5177.8	7073.2	9321.3	8851.7	7501.6	5558.6	2326.0	1049.4	759.5
80°	1778.6	1888.9	2551.0	3799.5	5385.5	5091.2	4013.7	2373.6	1272.3	666.4	530.1
82.5°	954.2	1025.6	1257.1	1503.8	2364.9	2473.1	2005.8	1367.5	683.7	380.8	302.9
85°	419.8	460.9	571.2	545.3	776.8	763.8	770.3	939.1	326.7	175.3	196.9
87.5°	0.0	0.0	0.0	0.0	2.2	2.2	23.8	125.5	32.5	51.9	45.4
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°	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4	4922.4
2.5°	4870.5	4831.6	4820.7	4807.8	4784.0	4742.9	4712.6	4677.9	4662.8	4645.5	4647.7
5°	4749.3	4701.7	4656.3	4597.9	4524.3	4442.1	4385.8	4320.9	4286.3	4253.9	4262.5
7.5°	4645.5	4571.9	4478.9	4355.6	4223.6	4076.4	3957.4	3864.4	3801.6	3758.4	3780.0
10°	4580.6	4494.0	4331.8	4130.5	3907.7	3682.6	3511.7	3351.6	3252.1	3174.2	3169.8
12.5°	4567.6	4455.1	4219.2	3927.1	3604.7	3304.0	3053.0	2836.6	2704.6	2607.3	2644.1
15°	4580.6	4437.8	4121.9	3738.9	3332.1	2925.3	2613.8	2364.9	2207.0	2118.3	2111.8
17.5°	4595.7	4420.5	4011.5	3535.5	3046.5	2581.3	2220.0	1956.0	1793.7	1705.0	1707.2
20°	4608.7	4394.5	3881.7	3312.6	2756.6	2261.1	1886.8	1635.8	1490.8	1425.9	1436.7
22.5°	4630.3	4368.5	3743.2	3074.6	2460.1	1951.7	1622.8	1419.4	1332.8	1289.6	1291.7
25°	4671.5	4353.4	3600.4	2815.0	2168.0	1705.0	1441.0	1304.7	1250.6	1224.7	1222.5
27.5°	4755.8	4366.4	3451.1	2564.0	1904.1	1516.8	1324.2	1235.5	1198.7	1181.4	1179.2
30°	4896.5	4418.3	3321.3	2308.7	1676.9	1369.6	1244.1	1190.0	1168.4	1153.3	1151.1
32.5°	5110.7	4515.7	3180.7	2070.7	1493.0	1261.4	1181.4	1153.3	1138.1	1129.5	1129.5
35°	5435.2	4693.1	3042.2	1863.0	1350.2	1177.1	1131.6	1120.8	1107.8	1103.5	1107.8
37.5°	5902.6	4976.5	2916.7	1681.2	1248.5	1112.1	1077.5	1081.9	1071.0	1077.5	1084.0
40°	6495.5	5355.2	2810.7	1531.9	1172.7	1064.5	1029.9	1045.1	1038.6	1045.1	1055.9
42.5°	7246.3	5824.7	2730.6	1415.1	1118.6	1025.6	993.1	1008.3	1004.0	1012.6	1023.4
45°	8083.6	6443.5	2693.8	1332.8	1079.7	997.5	962.9	973.7	969.3	975.8	986.7
47.5°	8886.4	7006.1	2726.3	1285.2	1047.2	973.7	936.9	941.2	939.1	936.9	943.4
50°	9578.8	7454.0	2819.3	1270.1	1025.6	949.9	915.3	917.4	910.9	897.9	902.3
52.5°	10143.5	7813.2	2875.6	1270.1	1014.8	923.9	891.4	893.6	880.6	863.3	865.5
55°	10515.6	7958.1	2830.1	1267.9	1010.5	902.3	867.6	869.8	856.8	835.2	837.4
57.5°	10621.7	7817.5	2639.7	1244.1	1006.1	885.0	843.8	848.2	839.5	815.7	815.7
60°	10325.2	7302.5	2291.4	1190.0	995.3	874.1	826.5	833.0	828.7	804.9	804.9
62.5°	9548.5	6387.3	1875.9	1107.8	965.0	861.2	811.4	824.4	835.2	822.2	820.0
65°	8094.4	5117.2	1525.4	1016.9	926.1	839.5	789.8	822.2	846.0	863.3	863.3
67.5°	6073.5	3663.2	1244.1	921.7	867.6	796.2	761.6	791.9	809.2	820.0	826.5
70°	3702.1	2155.1	980.2	811.4	783.3	731.3	705.4	675.1	651.3	646.9	649.1
72.5°	1811.0	1233.3	796.2	690.2	668.6	621.0	562.6	549.6	538.8	532.3	530.1
75°	997.5	859.0	657.8	573.4	534.4	476.0	463.0	441.4	437.1	428.4	430.6
77.5°	705.4	677.2	543.1	465.2	406.8	376.5	383.0	367.8	367.8	361.3	359.2
80°	530.1	532.3	417.6	339.7	300.8	289.9	296.4	296.4	292.1	289.9	287.8
82.5°	335.4	378.6	281.3	218.5	214.2	216.4	214.2	212.0	216.4	209.9	207.7
85°	231.5	272.6	170.9	129.8	129.8	127.7	132.0	129.8	134.2	127.7	127.7
87.5°	51.9	121.2	62.7	38.9	41.1	38.9	41.1	43.3	47.6	49.8	49.8
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)