

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: P632280

Luminaire Tested: GWS-SA2C-735-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-735-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

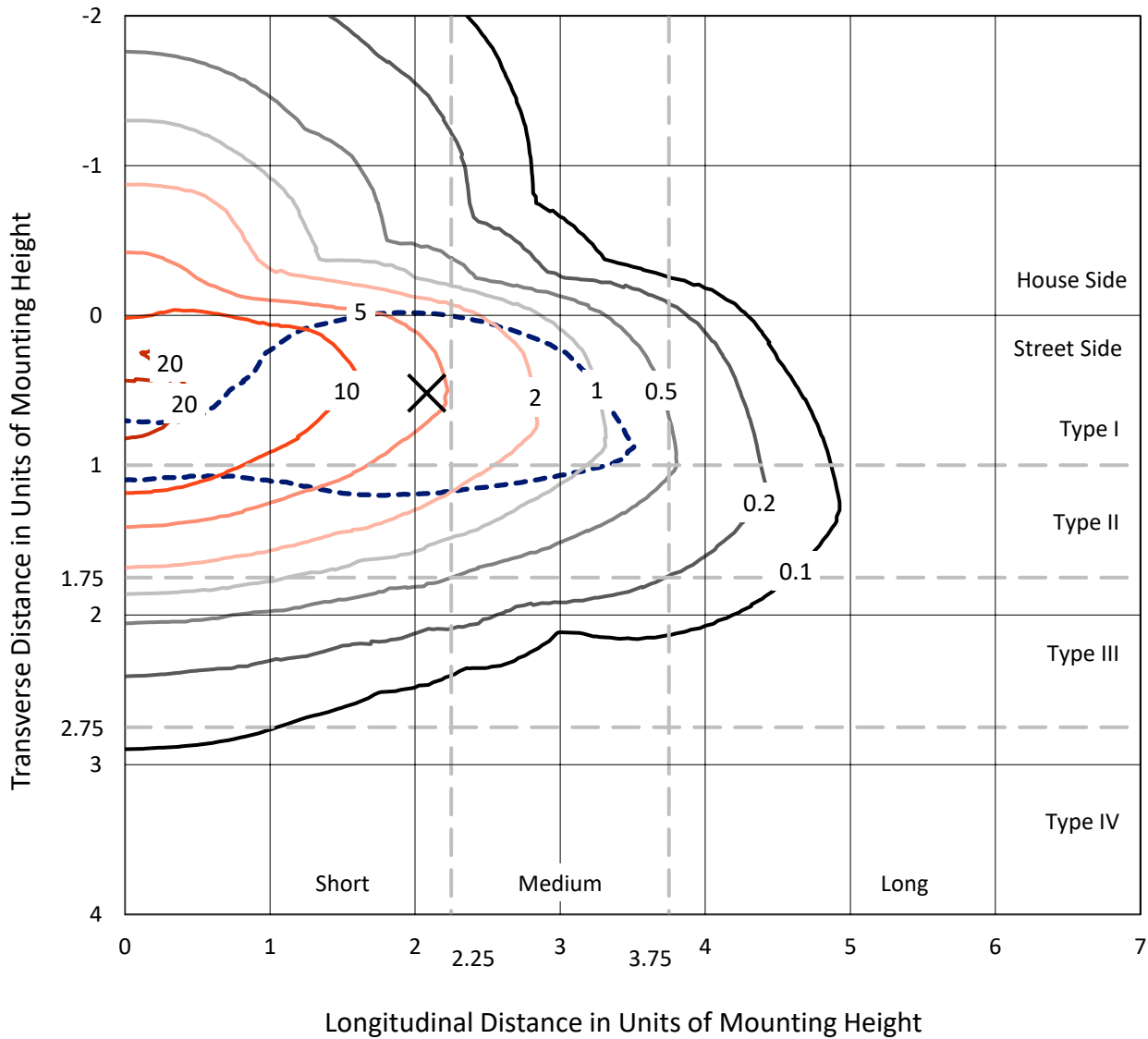
Lumens per Lamp: N/A  
Luminaire Lumens: 9308.1 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

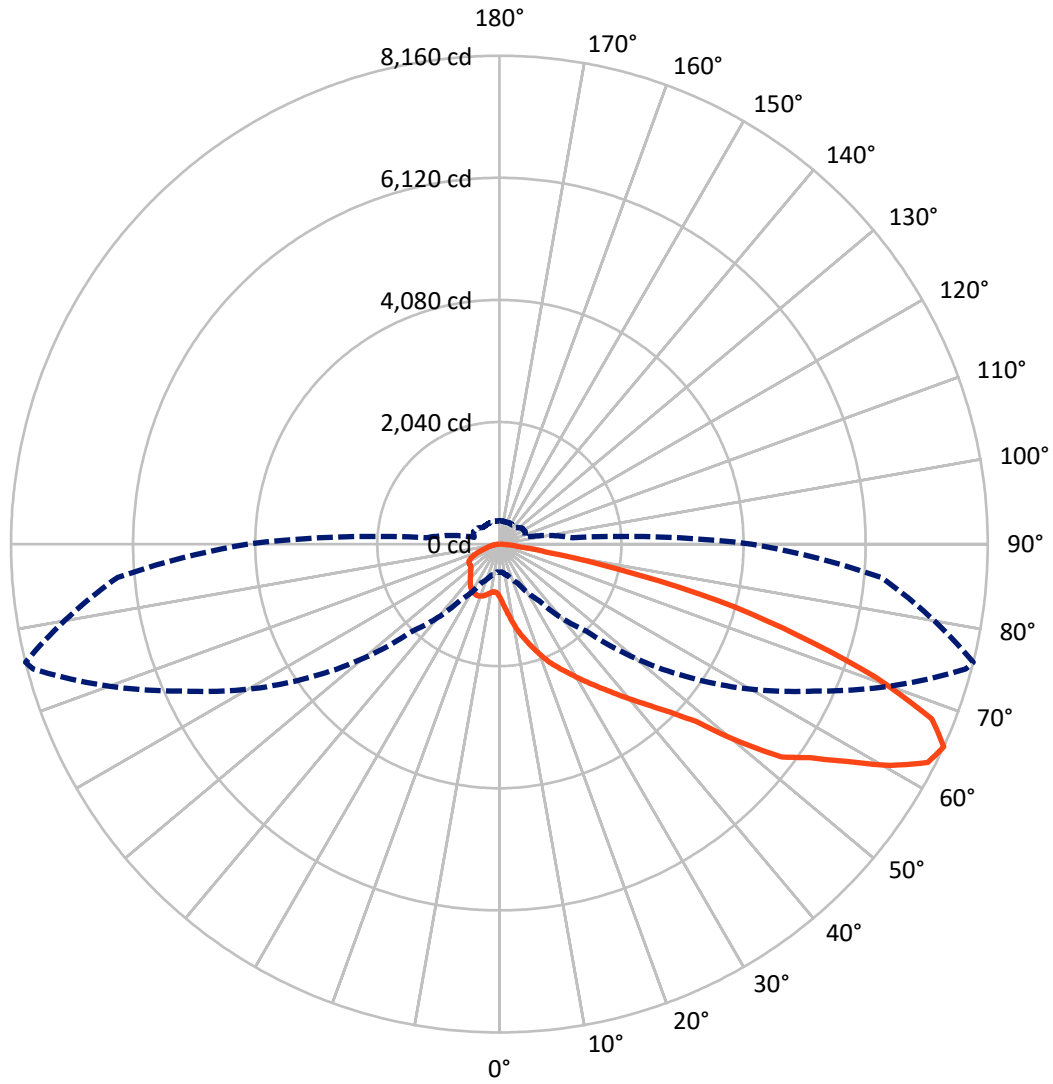
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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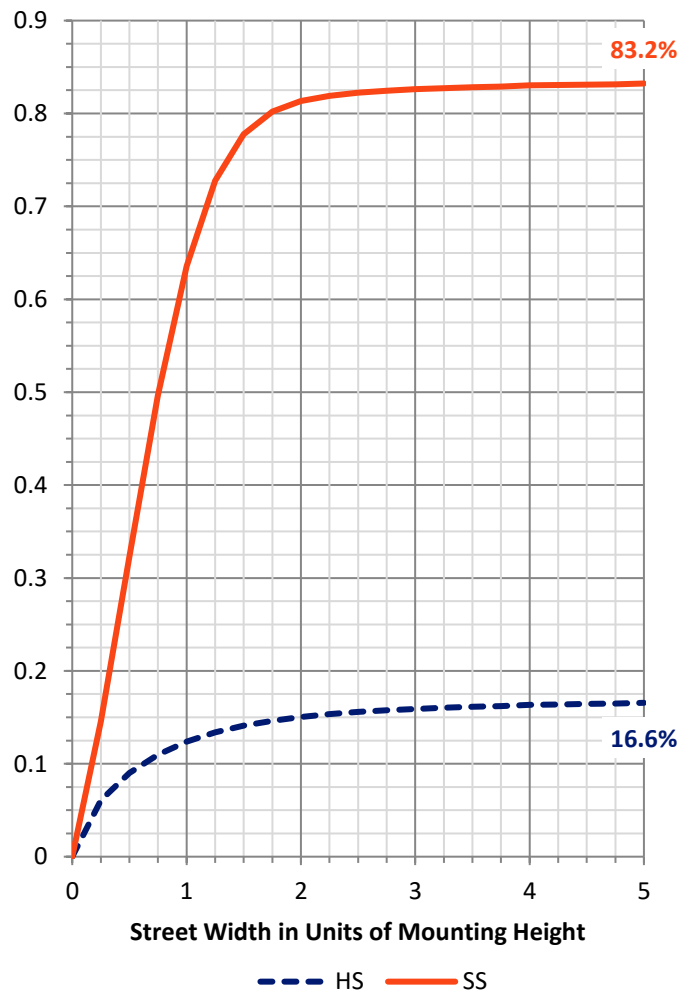
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1555.9	0.0	1555.9
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	7752.2	0.0	7752.2
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	9308.1	0.0	9308.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	1.1
10°-20°	398.9	4.3
20°-30°	777.3	8.4
30°-40°	1300.1	14.0
40°-50°	1861.4	20.0
50°-60°	2203.7	23.7
60°-70°	1832.4	19.7
70°-80°	749.8	8.1
80°-90°	79.8	0.9
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°	9308.1	100.0
0°-180°	9308.1	100.0

**Coefficient of Utilization**



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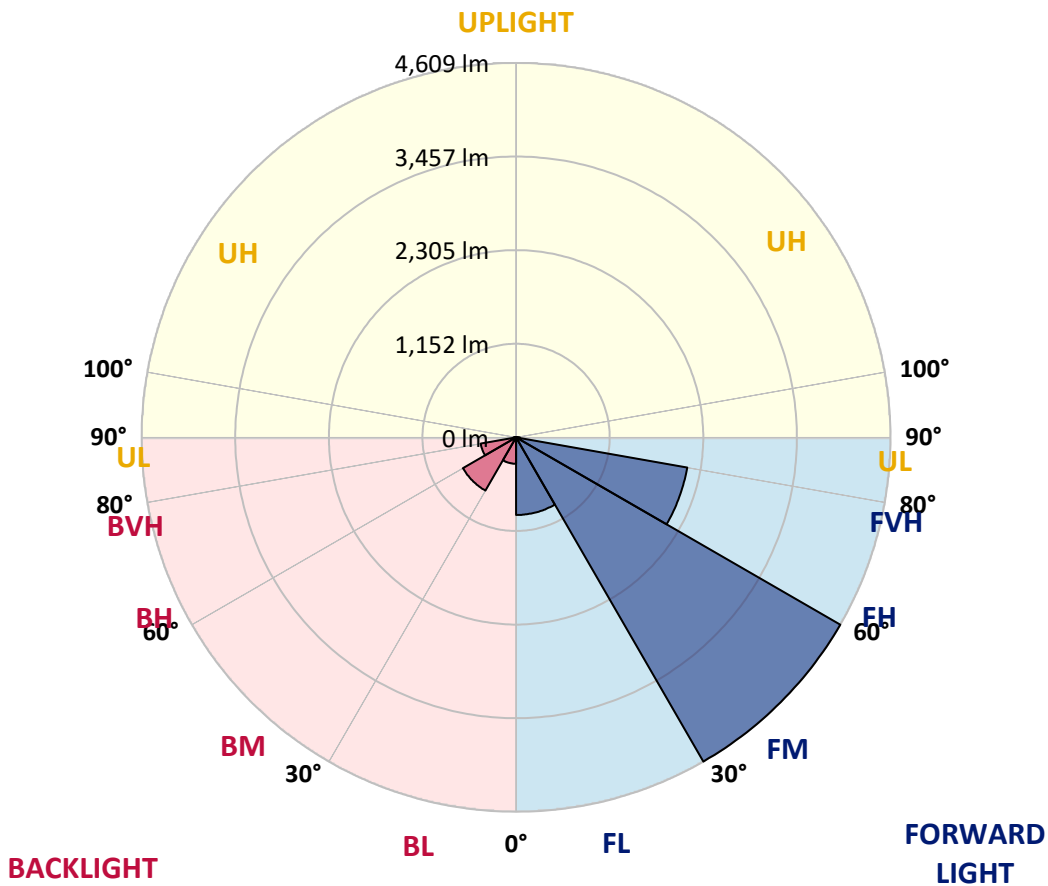
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.4	10.3			
FM (30°-60°)	4609.0	49.5			
FH (60°-80°)	2140.2	23.0			G2/5000
FVH (80°-90°)	47.6	0.5			G1/100
BL (0°-30°)	325.5	3.5	B1/500		
BM (30°-60°)	756.1	8.1	B1/1000		
BH (60°-80°)	442.0	4.7	B1/500		G1/500
BVH (80°-90°)	32.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4
2.5°	1235.5	1240.0	1225.0	1219.8	1184.4	1136.6	1096.7	1036.5	980.9	972.4	922.7
5°	1569.2	1549.6	1532.5	1521.4	1472.3	1418.0	1333.6	1220.4	1102.0	1087.6	980.3
7.5°	1767.5	1764.2	1743.3	1736.7	1698.8	1644.4	1557.4	1416.7	1244.6	1221.1	1058.1
10°	1926.5	1924.5	1914.0	1919.9	1885.3	1832.2	1747.8	1602.6	1401.0	1377.5	1145.2
12.5°	2065.2	2068.5	2066.5	2088.1	2070.4	2029.2	1941.5	1781.9	1557.4	1531.9	1251.2
15°	2166.6	2169.3	2179.1	2226.2	2236.0	2227.5	2138.5	1957.9	1711.8	1675.2	1360.4
17.5°	2195.4	2200.7	2224.2	2300.1	2353.1	2388.5	2322.4	2137.2	1863.7	1823.7	1471.7
20°	2234.0	2239.9	2263.5	2342.7	2420.5	2501.0	2489.2	2319.1	2016.8	1984.1	1584.2
22.5°	2412.7	2408.1	2397.6	2435.6	2491.2	2591.3	2620.8	2493.8	2175.1	2143.7	1708.6
25°	2756.9	2748.4	2681.6	2646.9	2628.6	2689.5	2741.8	2652.8	2329.6	2282.5	1824.4
27.5°	3136.4	3131.8	3046.8	2964.3	2851.8	2825.6	2856.3	2791.6	2479.4	2431.7	1925.2
30°	3495.7	3481.9	3392.9	3289.5	3139.0	3026.5	2981.3	2927.7	2643.7	2593.9	2043.0
32.5°	3817.0	3799.3	3694.6	3580.1	3422.4	3289.5	3154.7	3072.3	2829.5	2771.9	2163.4
35°	4080.7	4063.0	3955.7	3834.0	3660.6	3562.4	3377.9	3229.3	3018.6	2960.4	2305.4
37.5°	4284.8	4268.5	4156.6	4036.8	3885.7	3807.8	3647.5	3406.0	3236.5	3175.7	2455.9
40°	4399.4	4387.6	4297.9	4203.0	4076.1	4008.7	3936.7	3629.2	3480.6	3419.8	2633.2
42.5°	4434.0	4426.2	4363.4	4314.3	4228.6	4177.5	4218.8	3891.6	3741.1	3688.1	2832.8
45°	4347.0	4347.0	4328.7	4353.6	4357.5	4356.8	4501.4	4188.0	4061.0	4002.8	3114.2
47.5°	4124.5	4138.9	4165.7	4288.1	4417.0	4525.0	4831.9	4583.2	4472.7	4424.9	3512.7
50°	3717.5	3756.8	3848.4	4087.2	4361.4	4636.2	5144.7	5167.6	5273.0	5188.5	4099.0
52.5°	3121.4	3115.5	3349.1	3689.4	4107.5	4640.8	5316.8	5683.2	5966.6	5908.3	4534.8
55°	2480.7	2470.9	2688.8	3158.0	3718.2	4465.5	5420.2	5919.5	6351.4	6299.0	4926.8
57.5°	1899.6	1887.2	2080.9	2504.3	3168.5	4093.1	5400.6	6200.9	6880.7	6853.9	5459.4
60°	1307.4	1292.4	1473.7	1844.0	2518.0	3523.8	5183.3	6345.5	7500.4	7509.6	6029.4
62.5°	785.2	776.7	908.3	1195.5	1811.3	2818.4	4674.9	6257.8	7993.8	8035.1	6395.9
65°	473.8	467.9	545.1	713.3	1149.1	2056.7	3890.9	5809.5	8065.2	8160.1	6404.4
67.5°	344.9	345.5	367.8	434.5	670.1	1328.4	2919.8	5006.0	7693.5	7791.6	6000.6
70°	299.7	301.0	312.8	327.8	405.1	760.4	1898.3	3951.8	6594.8	6670.7	5032.8
72.5°	266.3	266.3	274.2	282.0	316.7	463.3	1016.9	2762.1	5204.9	5225.2	3841.2
75°	234.3	232.3	236.2	240.2	274.8	323.9	494.7	1924.5	3844.5	3797.3	2482.7
77.5°	186.5	184.5	185.2	189.1	220.5	231.6	250.6	1202.1	2166.6	2044.9	1096.7
80°	132.8	131.5	138.7	148.5	162.9	142.0	157.0	581.7	859.2	799.6	425.3
82.5°	79.2	81.8	92.9	100.8	112.6	89.0	101.4	194.3	304.3	296.4	172.8
85°	11.1	11.8	33.4	38.6	48.4	34.7	53.7	87.7	121.7	130.2	60.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	15.7	34.7	35.3	15.1
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°	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4
2.5°	897.1	866.4	822.5	785.9	755.1	730.3	709.3	693.6	689.1	682.5	682.5
5°	929.9	874.2	795.7	740.1	708.0	689.1	676.0	669.4	666.2	662.2	660.3
7.5°	975.0	897.1	791.1	734.9	710.0	698.2	689.7	685.8	683.2	679.2	679.2
10°	1037.2	931.2	805.5	753.2	733.6	721.8	712.0	705.4	699.5	693.6	692.3
12.5°	1104.6	975.7	831.7	778.1	757.1	742.7	729.0	719.2	712.0	704.8	702.8
15°	1179.2	1021.5	859.8	802.3	776.1	756.5	740.1	725.0	715.2	704.8	703.5
17.5°	1252.5	1067.9	883.4	818.6	785.2	761.0	737.5	717.8	705.4	693.6	690.4
20°	1340.2	1114.4	899.8	823.2	783.3	751.2	723.1	698.2	684.5	670.7	668.8
22.5°	1420.6	1157.6	907.6	816.7	768.2	730.3	697.6	670.7	655.7	641.9	639.3
25°	1498.5	1195.5	904.3	801.0	745.3	701.5	667.5	640.6	626.2	611.8	607.9
27.5°	1573.8	1221.1	891.3	776.7	716.5	669.4	636.7	612.5	600.1	587.6	582.4
30°	1647.7	1244.6	871.0	745.3	679.9	636.1	609.2	592.2	579.8	566.7	562.8
32.5°	1722.3	1261.6	840.2	708.7	642.6	606.6	590.2	577.8	564.7	551.6	547.7
35°	1797.6	1268.8	802.9	666.8	611.2	587.6	581.7	567.3	549.7	534.0	528.7
37.5°	1887.2	1275.4	756.5	625.6	583.7	578.5	577.2	555.6	534.6	513.0	507.1
40°	1995.2	1283.9	708.7	588.3	561.5	575.2	570.0	540.5	498.6	477.7	471.1
42.5°	2127.4	1299.6	659.0	554.3	545.1	562.8	556.9	503.9	475.7	464.0	460.7
45°	2321.7	1357.2	609.2	527.4	532.7	545.1	535.9	482.3	471.1	463.3	459.4
47.5°	2667.9	1445.5	566.0	507.1	522.8	529.4	494.1	476.4	467.9	457.4	452.8
50°	3027.8	1484.1	531.4	494.7	511.7	515.0	471.1	468.5	462.6	451.5	446.9
52.5°	3271.2	1478.9	510.4	490.1	502.6	490.1	460.7	460.0	456.1	443.0	437.8
55°	3546.1	1488.0	501.3	491.4	498.6	448.2	447.6	449.6	447.6	433.2	430.6
57.5°	3917.1	1516.2	496.7	496.0	496.0	428.0	435.2	437.8	433.9	427.3	425.3
60°	4273.7	1518.1	488.2	501.3	494.1	415.5	420.8	423.4	418.8	417.5	416.8
62.5°	4407.9	1423.9	469.2	497.3	486.2	401.8	405.7	407.0	402.4	405.7	405.1
65°	4208.3	1223.7	437.8	478.3	462.0	389.4	386.7	390.0	382.2	390.7	391.3
67.5°	3736.5	972.4	390.0	442.4	428.0	375.6	370.4	370.4	357.3	370.4	369.7
70°	3012.7	687.1	320.0	384.8	390.7	359.3	356.6	341.6	320.6	340.3	338.3
72.5°	2283.8	493.4	251.9	304.3	336.3	336.3	337.0	311.5	287.3	296.4	288.6
75°	1446.8	347.5	201.5	233.0	263.7	295.1	310.2	263.1	241.5	237.5	233.6
77.5°	651.8	228.4	157.0	178.6	187.2	233.0	283.3	226.4	197.0	188.5	185.8
80°	272.9	142.0	111.9	126.3	115.2	195.7	250.0	176.0	144.6	132.8	124.3
82.5°	119.8	84.4	71.3	68.1	72.0	145.3	186.5	117.1	90.3	122.4	123.7
85°	50.4	44.5	36.6	33.4	29.4	55.6	87.7	45.8	56.3	32.1	26.2
87.5°	11.8	13.1	9.8	6.5	3.9	0.7	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)