

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: P635248

Luminaire Tested: GWS-SA3D-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-735-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

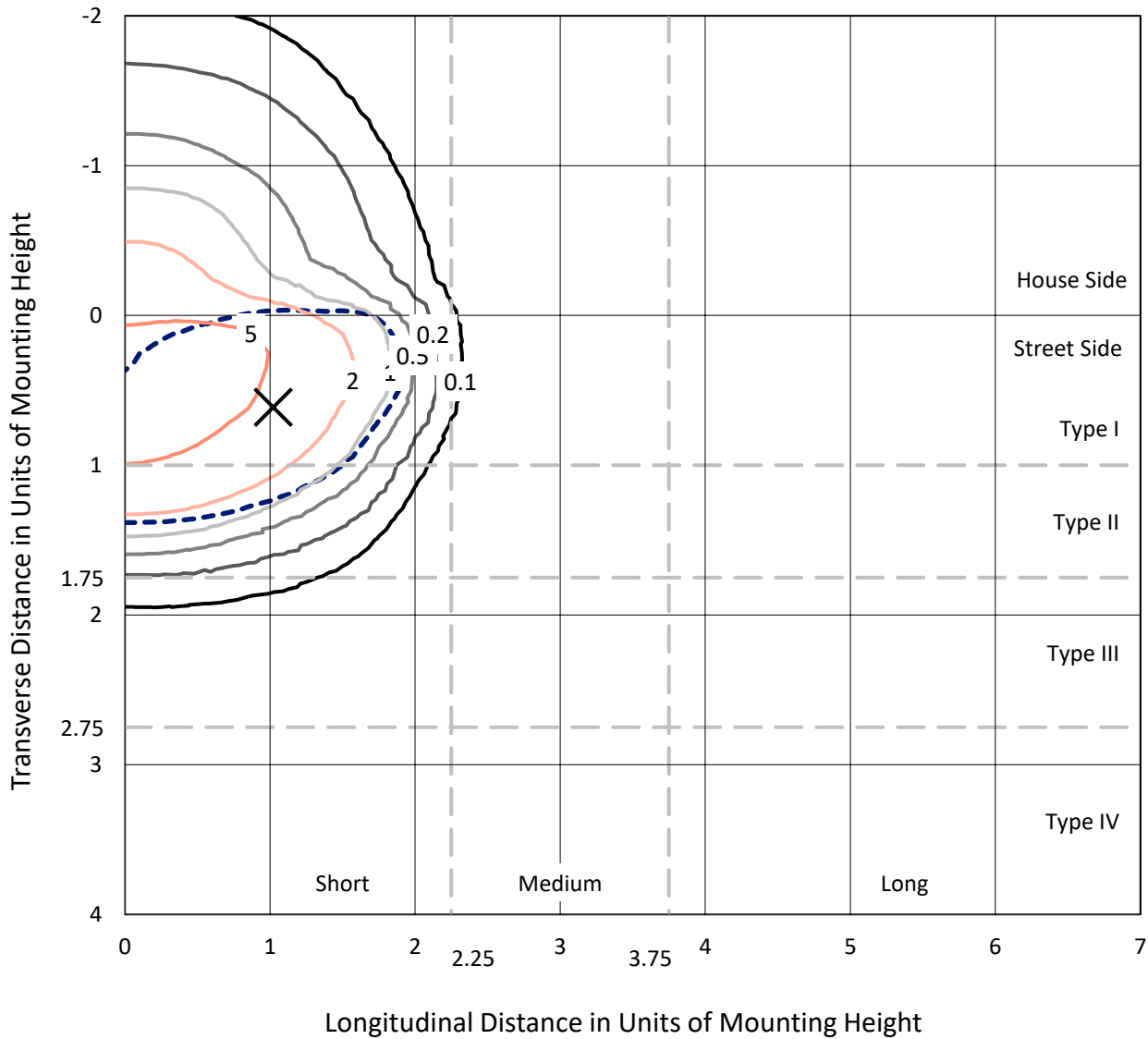
Lumens per Lamp: N/A  
Luminaire Lumens: 15275.9 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

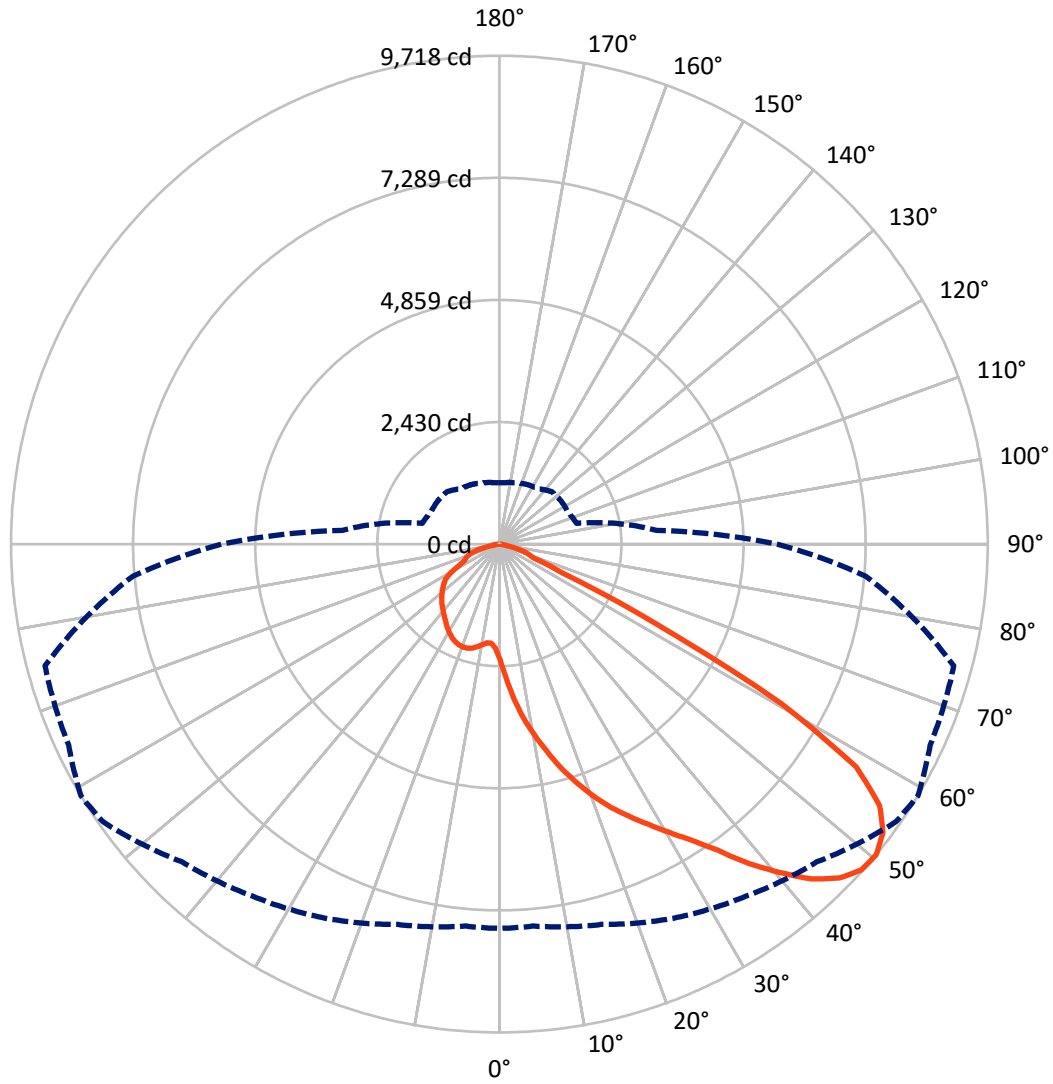
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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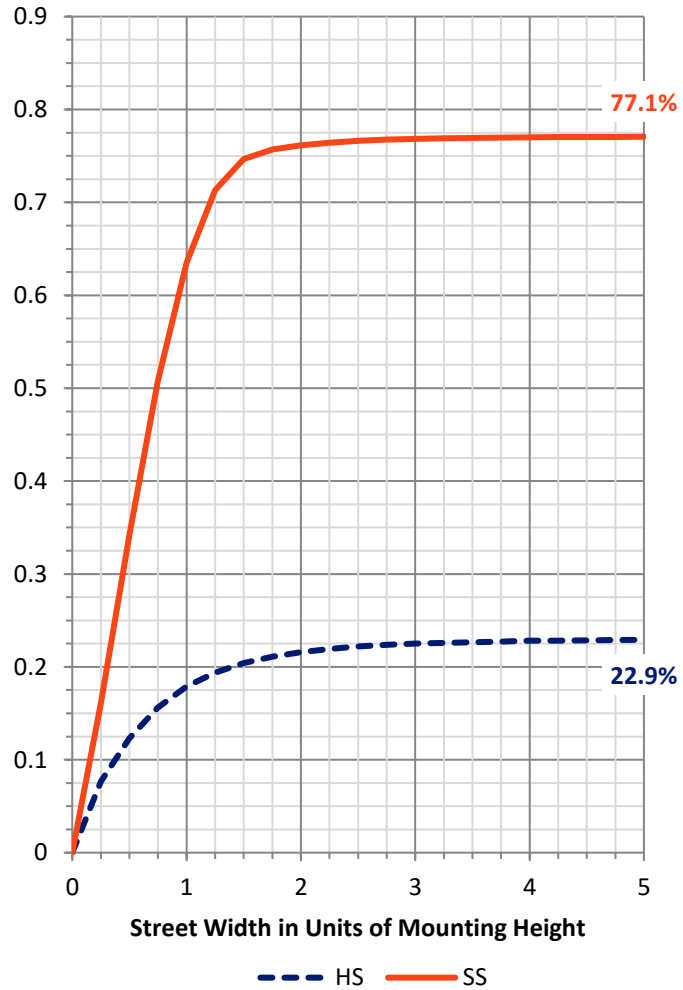
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3513.7	0.0	3513.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	11762.2	0.0	11762.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	15275.9	0.0	15275.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.6	1.7
10°-20°	942.5	6.2
20°-30°	1784.8	11.7
30°-40°	2959.7	19.4
40°-50°	4043.1	26.5
50°-60°	3670.1	24.0
60°-70°	1222.2	8.0
70°-80°	356.5	2.3
80°-90°	37.4	0.2
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°	15275.9	100.0
0°-180°	15275.9	100.0

**Coefficient of Utilization**



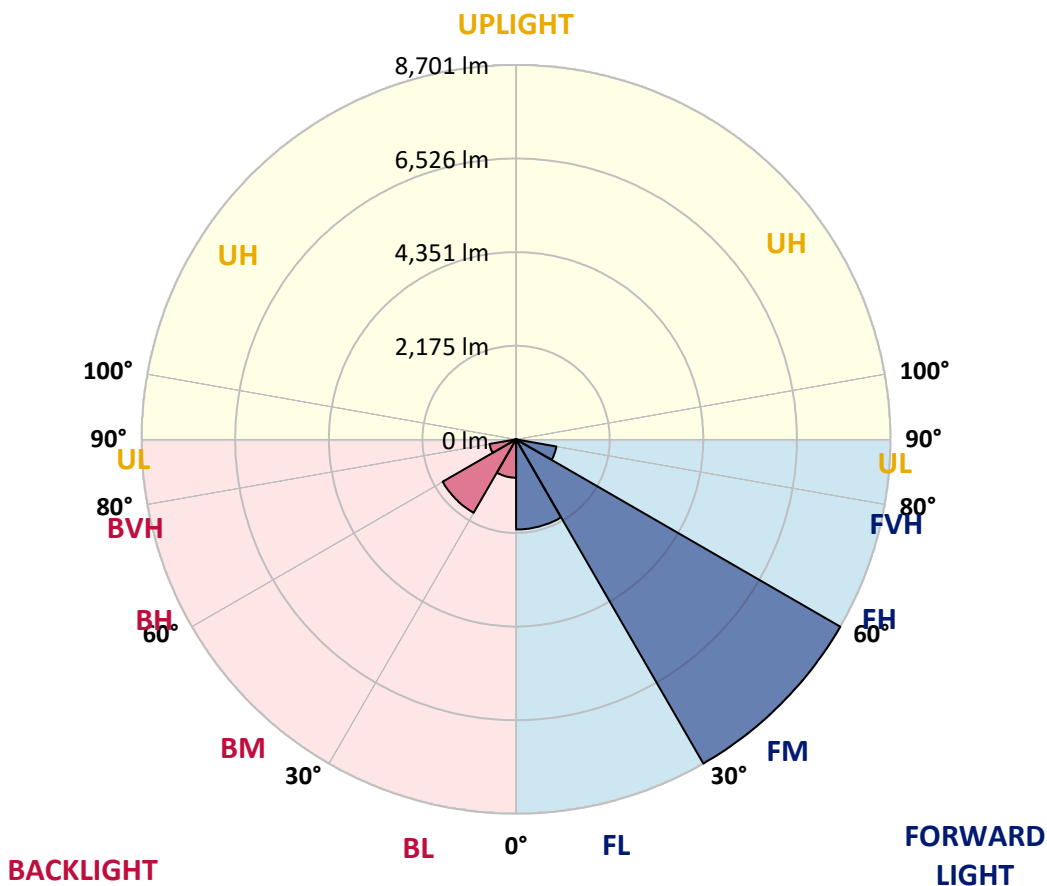
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.7	13.7			
FM (30°-60°)	8701.3	57.0			
FH (60°-80°)	951.5	6.2			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	892.2	5.8	B2/1000		
BM (30°-60°)	1971.6	12.9	B2/2500		
BH (60°-80°)	627.2	4.1	B2/1000		G2/1000
BVH (80°-90°)	22.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4
2.5°	2998.8	3021.2	2986.3	2988.8	2901.7	2861.9	2749.9	2684.0	2640.4	2518.5	2407.7
5°	3603.5	3577.4	3550.0	3533.8	3457.9	3350.9	3211.6	3100.8	2998.8	2759.9	2529.7
7.5°	3974.3	3960.6	3942.0	3932.0	3857.3	3745.4	3606.0	3511.4	3363.4	3039.8	2677.7
10°	4289.1	4272.9	4261.7	4269.2	4208.2	4136.1	3984.3	3876.0	3709.3	3336.0	2856.9
12.5°	4533.0	4541.7	4545.4	4585.3	4559.1	4515.6	4358.8	4244.3	4058.9	3648.3	3067.2
15°	4725.9	4723.4	4766.9	4842.8	4885.1	4857.8	4732.1	4636.3	4409.8	3955.6	3293.7
17.5°	4770.7	4773.2	4841.6	4974.7	5112.8	5180.0	5109.1	4994.6	4770.7	4259.3	3528.8
20°	4806.7	4811.7	4882.7	5034.5	5236.0	5423.9	5435.1	5353.0	5160.1	4587.8	3767.8
22.5°	5034.5	5045.7	5064.3	5160.1	5341.8	5579.5	5710.1	5692.7	5530.9	4932.4	4025.3
25°	5633.0	5599.4	5508.5	5481.2	5550.8	5743.7	5966.4	6000.0	5920.4	5311.9	4302.8
27.5°	6372.1	6336.0	6201.6	6059.8	5909.2	5976.4	6214.1	6314.8	6316.1	5730.0	4581.5
30°	7042.8	7014.1	6904.6	6701.8	6441.8	6344.7	6520.2	6655.8	6736.7	6212.8	4898.8
32.5°	7616.4	7590.3	7442.2	7276.7	7022.9	6827.5	6891.0	7021.6	7210.7	6837.5	5293.3
35°	8099.2	8073.0	7931.2	7764.5	7529.3	7412.3	7389.9	7479.5	7724.6	7489.5	5746.2
37.5°	8491.1	8465.0	8316.9	8160.2	7981.0	7988.4	8022.0	8065.6	8206.2	8187.5	6230.2
40°	8745.0	8717.6	8611.8	8499.8	8386.6	8476.2	8642.9	8590.7	8665.3	8751.2	6675.7
42.5°	8858.2	8823.4	8762.4	8737.5	8702.7	8842.0	9163.1	9110.8	9021.2	9127.0	7006.7
45°	8745.0	8715.1	8713.9	8789.8	8870.6	9049.8	9522.7	9480.4	9253.9	9308.6	7204.5
47.5°	8397.8	8371.7	8442.6	8641.7	8840.8	9102.1	9683.2	9690.6	9419.4	9384.5	7332.7
50°	7647.5	7630.1	7835.4	8212.4	8555.8	8939.1	9632.2	9718.0	9459.2	9360.9	7316.5
52.5°	6122.0	6202.9	6649.6	7279.2	7946.1	8652.9	9443.0	9555.0	9267.6	9205.4	7229.4
55°	4190.8	4228.1	4674.9	5594.4	6652.1	8033.2	9008.8	9181.7	9041.1	9179.2	7320.2
57.5°	2170.1	2199.9	2552.1	3368.3	4511.8	6348.4	7803.0	8370.4	8584.5	9311.1	7602.7
60°	890.9	915.8	1061.4	1455.8	2275.8	3696.8	5615.5	6456.7	6959.4	8503.6	6751.6
62.5°	647.0	659.5	729.2	868.5	1192.0	1811.7	3178.0	3487.8	3841.2	5329.4	4286.6
65°	545.0	558.7	614.7	699.3	869.8	1111.2	1357.5	1365.0	1504.4	2171.3	1589.0
67.5°	456.7	469.1	518.9	591.0	703.0	788.9	729.2	730.4	727.9	787.6	761.5
70°	355.9	365.8	415.6	492.7	551.2	506.4	569.9	630.9	604.7	628.4	664.5
72.5°	260.1	271.3	314.8	373.3	358.4	360.8	461.6	523.9	508.9	535.1	568.6
75°	187.9	195.4	217.8	186.6	196.6	237.7	324.8	358.4	373.3	395.7	425.6
77.5°	61.0	61.0	68.4	85.9	107.0	131.9	165.5	179.2	201.6	226.5	247.6
80°	31.1	32.4	38.6	47.3	59.7	75.9	97.1	103.3	114.5	128.2	136.9
82.5°	14.9	16.2	18.7	23.6	31.1	39.8	53.5	59.7	67.2	75.9	82.1
85°	3.7	3.7	5.0	7.5	10.0	14.9	19.9	23.6	29.9	36.1	39.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	3.7	5.0	6.2	7.5	10.0
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°	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4	2314.4
2.5°	2358.0	2288.3	2198.7	2122.8	2053.1	1999.6	1953.6	1931.2	1910.0	1895.1	1900.1
5°	2422.7	2303.2	2136.5	2020.8	1949.8	1913.7	1888.9	1876.4	1873.9	1864.0	1860.2
7.5°	2517.2	2346.8	2124.0	2007.1	1959.8	1941.1	1927.4	1920.0	1923.7	1913.7	1910.0
10°	2634.2	2418.9	2155.1	2051.9	2010.8	1997.1	1982.2	1972.2	1967.2	1952.3	1949.8
12.5°	2779.8	2508.5	2211.1	2109.1	2068.0	2044.4	2024.5	2007.1	1995.9	1977.2	1972.2
15°	2936.6	2608.1	2277.1	2165.1	2116.6	2081.7	2049.4	2023.2	2003.3	1978.4	1974.7
17.5°	3107.0	2712.6	2331.8	2203.7	2141.4	2095.4	2048.1	2009.6	1982.2	1949.8	1946.1
20°	3285.0	2818.4	2372.9	2222.3	2142.7	2080.5	2017.0	1966.0	1931.2	1898.8	1896.3
22.5°	3469.1	2915.4	2397.8	2217.4	2122.8	2045.6	1969.7	1912.5	1871.4	1832.9	1830.4
25°	3654.5	3008.7	2404.0	2197.4	2083.0	1993.4	1917.5	1850.3	1804.2	1760.7	1755.7
27.5°	3842.4	3087.1	2389.1	2157.6	2029.5	1932.4	1856.5	1790.6	1743.3	1699.7	1692.3
30°	4042.7	3154.3	2356.7	2105.4	1967.2	1867.7	1793.0	1743.3	1698.5	1654.9	1647.5
32.5°	4256.8	3212.8	2310.7	2041.9	1895.1	1803.0	1748.2	1703.5	1658.7	1620.1	1612.6
35°	4511.8	3251.4	2242.2	1959.8	1827.9	1755.7	1718.4	1666.1	1611.4	1569.1	1565.3
37.5°	4775.6	3281.2	2160.1	1881.4	1769.4	1728.3	1697.2	1626.3	1557.9	1506.9	1500.6
40°	5030.7	3306.1	2058.1	1808.0	1715.9	1708.4	1666.1	1577.8	1459.6	1402.3	1397.4
42.5°	5268.4	3313.6	1951.1	1729.6	1667.4	1663.6	1616.4	1479.5	1388.6	1352.6	1347.6
45°	5431.4	3307.4	1840.3	1656.2	1618.8	1598.9	1549.2	1408.6	1352.6	1320.2	1314.0
47.5°	5552.1	3275.0	1715.9	1579.0	1564.1	1536.7	1429.7	1363.8	1311.5	1279.1	1272.9
50°	5530.9	3140.6	1590.2	1504.4	1498.1	1474.5	1342.6	1307.8	1261.7	1226.9	1221.9
52.5°	5421.4	2885.5	1462.1	1422.2	1434.7	1388.6	1280.4	1240.6	1200.8	1160.9	1152.2
55°	5448.8	2701.4	1365.0	1342.6	1365.0	1260.5	1210.7	1168.4	1131.1	1092.5	1085.0
57.5°	5568.3	2519.7	1261.7	1256.7	1280.4	1162.2	1121.1	1067.6	1014.1	983.0	983.0
60°	4676.1	1836.6	1080.1	1092.5	1146.0	1082.5	1046.5	991.7	933.2	905.9	905.9
62.5°	2764.8	1152.2	895.9	882.2	915.8	955.6	975.5	930.7	861.1	825.0	826.2
65°	1218.2	838.7	790.1	778.9	769.0	796.4	851.1	854.8	781.4	739.1	740.4
67.5°	750.3	759.0	739.1	730.4	721.7	716.7	711.7	714.2	694.3	655.7	654.5
70°	676.9	700.5	686.9	679.4	668.2	659.5	629.6	581.1	547.5	537.5	548.7
72.5°	582.3	614.7	607.2	603.5	589.8	568.6	528.8	481.5	441.7	416.8	421.8
75°	439.2	465.4	469.1	470.3	455.4	435.5	394.4	354.6	319.8	293.7	299.9
77.5°	252.6	267.5	271.3	275.0	263.8	256.3	229.0	200.3	181.7	154.3	161.8
80°	140.6	146.8	146.8	148.1	141.9	133.1	114.5	98.3	89.6	77.1	78.4
82.5°	84.6	87.1	88.3	89.6	85.9	77.1	63.5	52.3	47.3	41.1	39.8
85°	41.1	43.6	43.6	44.8	38.6	33.6	26.1	19.9	17.4	12.4	13.7
87.5°	10.0	11.2	11.2	10.0	8.7	6.2	3.7	1.2	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)