

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: P640695

Luminaire Tested: GWS-SA5E-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640695
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-SA5E-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37754.7 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 269.6
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

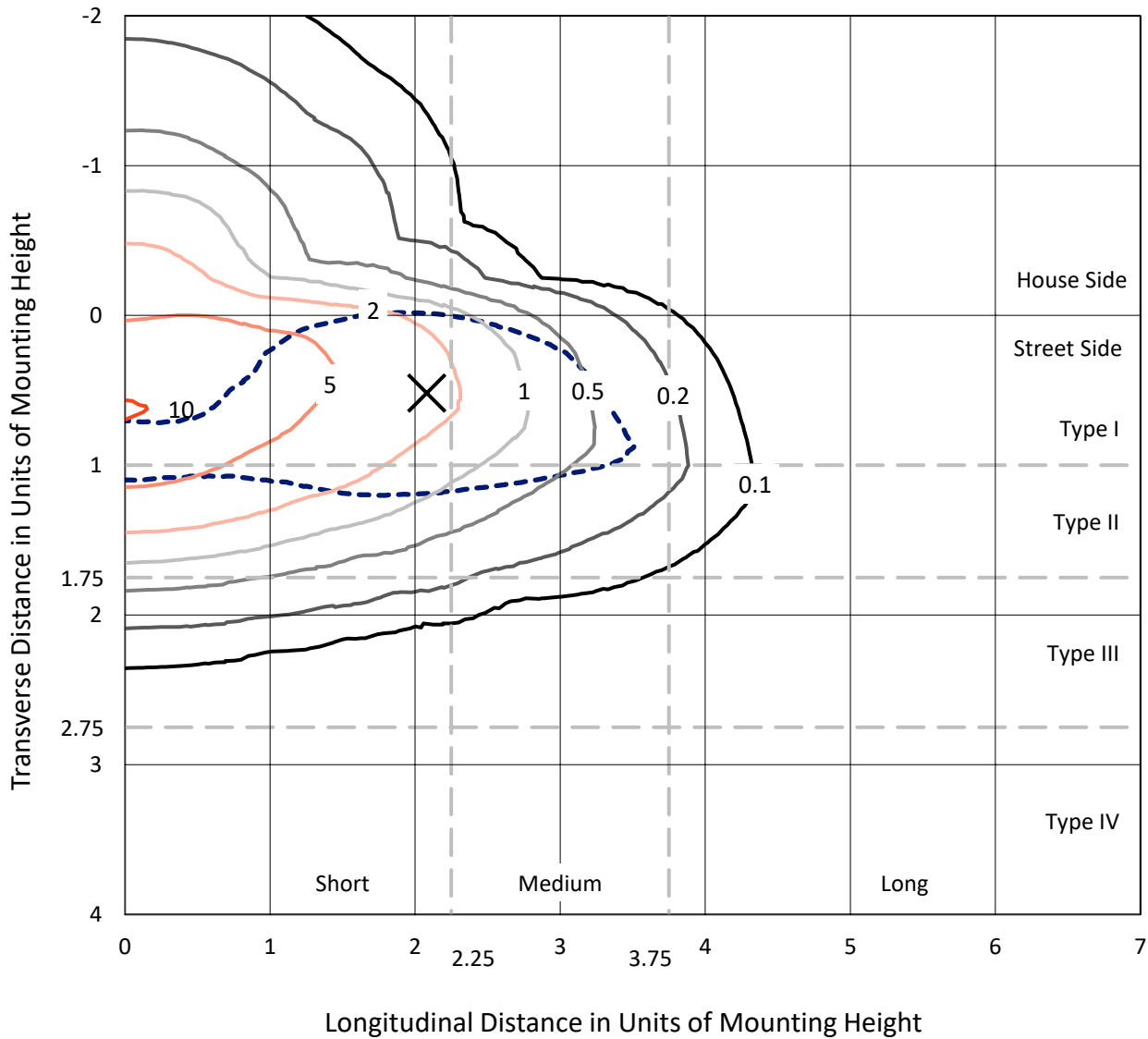


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Iso-Footcandle Lines of Horizontal Illumination

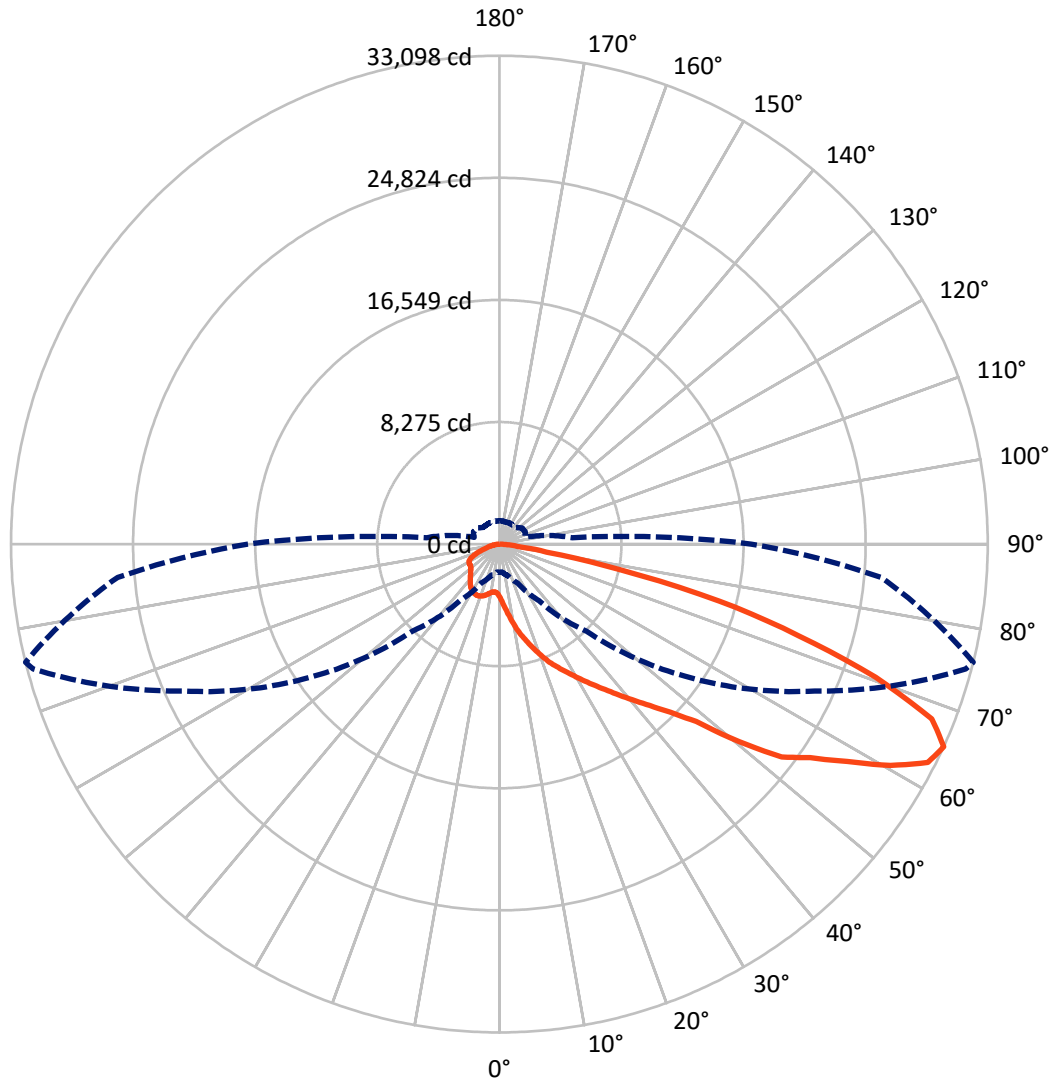
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 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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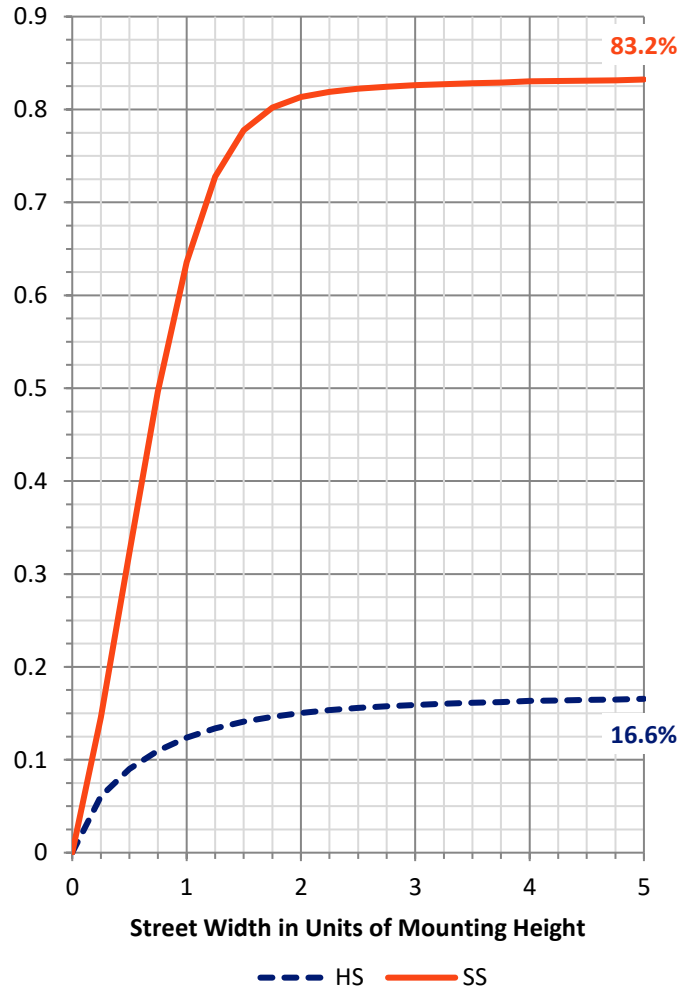
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6310.7	0.0	6310.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	31444.0	0.0	31444.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	37754.7	0.0	37754.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.8	1.1
10°-20°	1617.9	4.3
20°-30°	3153.0	8.4
30°-40°	5273.2	14.0
40°-50°	7550.1	20.0
50°-60°	8938.3	23.7
60°-70°	7432.3	19.7
70°-80°	3041.5	8.1
80°-90°	323.8	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°	37754.7	100.0
0°-180°	37754.7	100.0

Coefficient of Utilization



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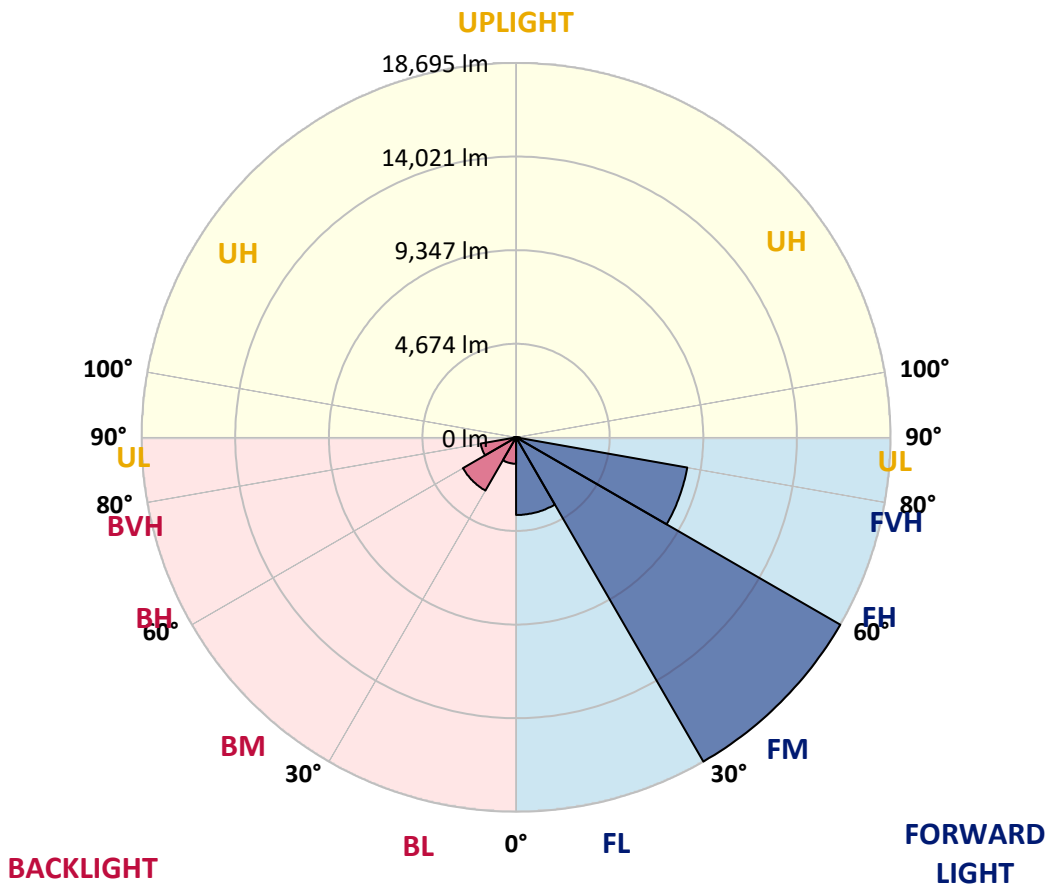
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3875.4	10.3			
FM (30°-60°)	18694.7	49.5			
FH (60°-80°)	8680.8	23.0			G4/12000
FVH (80°-90°)	193.1	0.5			G2/225
BL (0°-30°)	1320.2	3.5	B3/2500		
BM (30°-60°)	3066.9	8.1	B3/5000		
BH (60°-80°)	1793.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	130.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	5011.2	5029.7	4968.7	4947.5	4804.1	4610.4	4448.5	4204.3	3978.7	3944.2	3742.4
5°	6364.8	6285.2	6216.2	6171.1	5972.0	5751.7	5409.3	4950.1	4469.7	4411.3	3976.0
7.5°	7169.0	7155.8	7070.8	7044.3	6890.3	6670.0	6317.0	5746.4	5048.3	4952.8	4291.9
10°	7814.0	7806.1	7763.6	7787.5	7646.8	7431.8	7089.4	6500.2	5682.7	5587.1	4644.9
12.5°	8376.7	8390.0	8382.0	8469.6	8397.9	8230.7	7875.1	7227.4	6317.0	6213.5	5074.9
15°	8788.1	8798.7	8838.5	9029.6	9069.5	9035.0	8674.0	7941.4	6943.4	6794.8	5518.1
17.5°	8904.9	8926.1	9021.7	9329.6	9544.6	9687.9	9419.8	8668.7	7559.2	7397.3	5969.3
20°	9061.5	9085.4	9180.9	9502.1	9817.9	10144.4	10096.6	9406.5	8180.3	8047.6	6425.9
22.5°	9786.1	9767.5	9725.1	9879.0	10104.6	10510.7	10630.1	10115.2	8822.6	8695.2	6930.2
25°	11182.2	11147.7	10877.0	10736.3	10662.0	10908.8	11121.2	10760.2	9449.0	9257.9	7400.0
27.5°	12721.7	12703.1	12358.0	12023.6	11567.1	11460.9	11585.7	11322.9	10056.8	9863.1	7808.7
30°	14178.8	14123.1	13762.1	13342.7	12732.3	12275.8	12092.6	11875.0	10723.0	10521.3	8286.5
32.5°	15482.0	15410.4	14985.7	14521.2	13881.6	13342.7	12796.0	12461.5	11476.8	11243.3	8774.8
35°	16551.7	16480.0	16044.7	15551.1	14847.7	14449.6	13701.1	13098.6	12243.9	12007.7	9350.8
37.5°	17379.8	17313.5	16859.6	16373.9	15760.7	15444.9	14794.6	13815.2	13127.8	12880.9	9961.3
40°	17844.3	17796.5	17432.9	17048.0	16533.1	16259.7	15967.8	14720.3	14117.8	13870.9	10680.6
42.5°	17985.0	17953.1	17698.3	17499.3	17151.6	16944.5	17111.7	15784.6	15174.2	14959.2	11490.1
45°	17632.0	17632.0	17557.6	17658.5	17674.4	17671.8	18258.4	16987.0	16472.1	16235.8	12631.4
47.5°	16729.5	16787.9	16896.7	17393.1	17916.0	18353.9	19598.7	18590.1	18141.6	17947.8	14247.8
50°	15078.6	15237.9	15609.5	16578.2	17690.4	18805.1	20867.5	20960.4	21387.7	21045.3	16626.0
52.5°	12660.6	12636.7	13584.3	14964.5	16660.5	18823.7	21565.5	23051.9	24201.2	23964.9	18393.7
55°	10062.1	10022.3	10906.2	12809.3	15081.3	18112.4	21984.9	24010.0	25761.8	25549.5	19983.6
57.5°	7705.2	7654.8	8440.4	10157.7	12851.7	16602.1	21905.3	25151.4	27909.1	27800.3	22144.1
60°	5303.1	5242.1	5977.3	7479.6	10213.4	14293.0	21024.1	25737.9	30422.6	30459.8	24456.0
62.5°	3185.1	3150.6	3684.1	4849.3	7346.9	11431.7	18961.7	25382.3	32423.9	32591.1	25942.3
65°	1921.7	1897.8	2211.0	2893.1	4660.8	8342.2	15782.0	23564.1	32713.2	33098.1	25976.8
67.5°	1398.8	1401.4	1491.7	1762.4	2717.9	5388.1	11843.1	20304.8	31205.6	31603.8	24339.2
70°	1215.6	1220.9	1268.7	1329.8	1643.0	3084.2	7699.9	16028.8	26749.2	27057.1	20413.6
72.5°	1080.3	1080.3	1112.1	1144.0	1284.6	1879.2	4124.7	11203.5	21111.6	21193.9	15580.3
75°	950.2	942.2	958.2	974.1	1114.8	1313.8	2006.6	7806.1	15593.5	15402.4	10070.1
77.5°	756.5	748.5	751.1	767.1	894.5	939.6	1016.6	4875.8	8788.1	8294.4	4448.5
80°	538.8	533.5	562.7	602.5	660.9	576.0	637.0	2359.6	3485.0	3243.5	1725.2
82.5°	321.2	331.8	376.9	408.7	456.5	361.0	411.4	788.3	1234.2	1202.4	700.7
85°	45.1	47.8	135.4	156.6	196.4	140.7	217.6	355.7	493.7	528.2	246.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.6	63.7	140.7	143.3	61.0
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°	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3638.9	3514.2	3336.4	3187.7	3063.0	2962.1	2877.2	2813.5	2794.9	2768.3	2768.3
5°	3771.6	3546.0	3227.5	3001.9	2871.9	2794.9	2741.8	2715.3	2702.0	2686.1	2678.1
7.5°	3954.8	3638.9	3208.9	2980.7	2879.8	2832.0	2797.5	2781.6	2771.0	2755.1	2755.1
10°	4206.9	3777.0	3267.3	3055.0	2975.4	2927.6	2887.8	2861.2	2837.4	2813.5	2808.2
12.5°	4480.3	3957.4	3373.5	3155.9	3070.9	3012.5	2956.8	2917.0	2887.8	2858.6	2850.6
15°	4782.9	4143.2	3487.6	3254.1	3147.9	3068.3	3001.9	2940.9	2901.1	2858.6	2853.3
17.5°	5080.2	4331.7	3583.2	3320.4	3185.1	3086.9	2991.3	2911.7	2861.2	2813.5	2800.2
20°	5435.8	4520.1	3649.5	3339.0	3177.1	3047.0	2932.9	2832.0	2776.3	2720.6	2712.6
22.5°	5762.3	4695.3	3681.4	3312.5	3116.1	2962.1	2829.4	2720.6	2659.5	2603.8	2593.2
25°	6078.2	4849.3	3668.1	3248.8	3023.2	2845.3	2707.3	2598.5	2540.1	2481.7	2465.8
27.5°	6383.4	4952.8	3615.0	3150.6	2906.4	2715.3	2582.6	2484.3	2433.9	2383.5	2362.3
30°	6683.3	5048.3	3532.8	3023.2	2757.7	2579.9	2471.1	2402.1	2351.6	2298.6	2282.6
32.5°	6985.9	5117.3	3408.0	2874.5	2606.4	2460.5	2394.1	2343.7	2290.6	2237.5	2221.6
35°	7291.1	5146.5	3256.7	2704.6	2479.0	2383.5	2359.6	2301.2	2229.5	2165.8	2144.6
37.5°	7654.8	5173.1	3068.3	2537.4	2367.6	2346.3	2341.0	2253.4	2168.5	2080.9	2057.0
40°	8092.7	5207.6	2874.5	2386.1	2277.3	2333.1	2311.8	2192.4	2022.5	1937.6	1911.0
42.5°	8628.9	5271.3	2672.8	2248.1	2211.0	2282.6	2258.7	2043.7	1929.6	1881.8	1868.6
45°	9417.2	5504.8	2471.1	2139.3	2160.5	2211.0	2173.8	1956.2	1911.0	1879.2	1863.3
47.5°	10821.2	5863.2	2295.9	2057.0	2120.7	2147.3	2003.9	1932.3	1897.8	1855.3	1836.7
50°	12281.1	6019.8	2155.2	2006.6	2075.6	2088.9	1911.0	1900.4	1876.5	1831.4	1812.8
52.5°	13268.4	5998.5	2070.3	1988.0	2038.4	1988.0	1868.6	1865.9	1850.0	1796.9	1775.7
55°	14383.2	6035.7	2033.1	1993.3	2022.5	1818.1	1815.5	1823.4	1815.5	1757.1	1746.5
57.5°	15888.1	6149.8	2014.6	2011.9	2011.9	1735.9	1765.1	1775.7	1759.7	1733.2	1725.2
60°	17334.7	6157.8	1980.0	2033.1	2003.9	1685.4	1706.7	1717.3	1698.7	1693.4	1690.7
62.5°	17878.8	5775.6	1903.1	2017.2	1972.1	1629.7	1645.6	1650.9	1632.3	1645.6	1643.0
65°	17069.3	4963.4	1775.7	1940.2	1873.9	1579.3	1568.6	1581.9	1550.1	1584.6	1587.2
67.5°	15155.6	3944.2	1581.9	1794.3	1735.9	1523.5	1502.3	1502.3	1449.2	1502.3	1499.6
70°	12220.0	2786.9	1297.9	1560.7	1584.6	1457.2	1446.5	1385.5	1300.6	1380.2	1372.2
72.5°	9263.2	2001.3	1021.9	1234.2	1364.3	1364.3	1366.9	1263.4	1165.2	1202.4	1170.5
75°	5868.5	1409.4	817.5	944.9	1069.6	1197.1	1258.1	1067.0	979.4	963.5	947.6
77.5°	2643.6	926.3	637.0	724.6	759.1	944.9	1149.3	918.4	798.9	764.4	753.8
80°	1106.8	576.0	453.9	512.3	467.1	793.6	1013.9	714.0	586.6	538.8	504.3
82.5°	485.7	342.4	289.3	276.0	292.0	589.2	756.5	475.1	366.3	496.3	501.6
85°	204.4	180.5	148.6	135.4	119.4	225.6	355.7	185.8	228.3	130.1	106.2
87.5°	47.8	53.1	39.8	26.5	15.9	2.7	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)