

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: P640255

Luminaire Tested: GWS-SA5D-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640255
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-SA5D-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30632.1 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 204.6
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

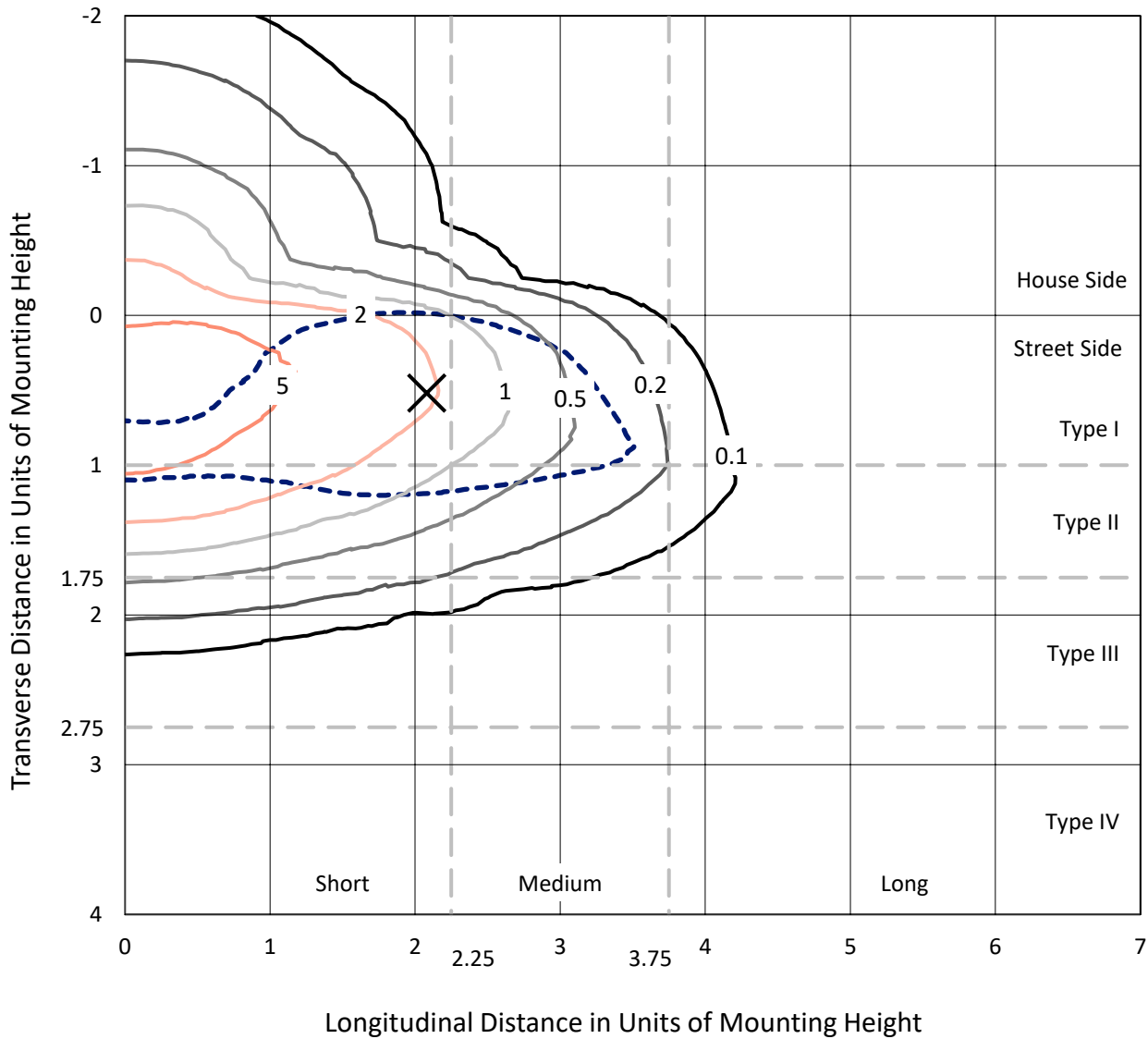


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Iso-Footcandle Lines of Horizontal Illumination

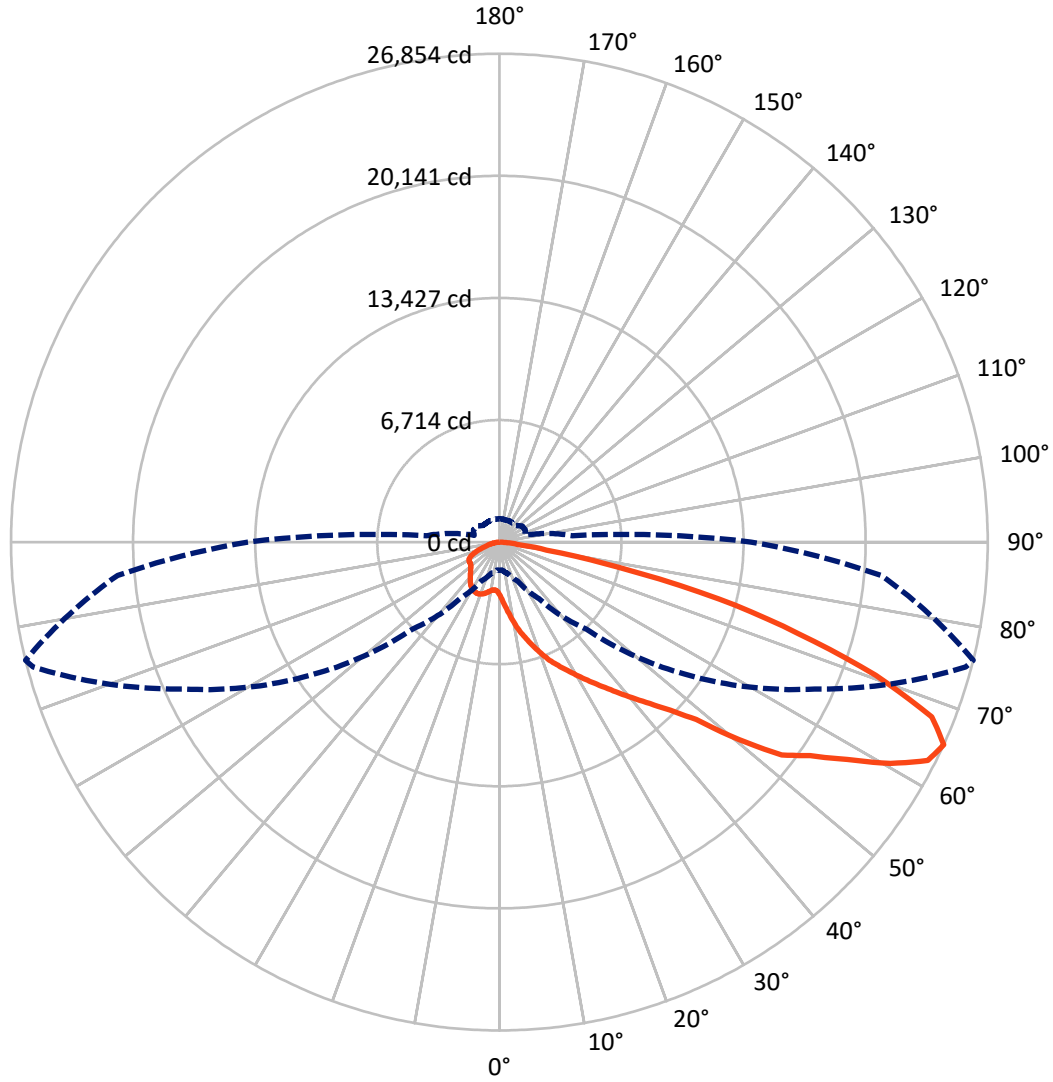
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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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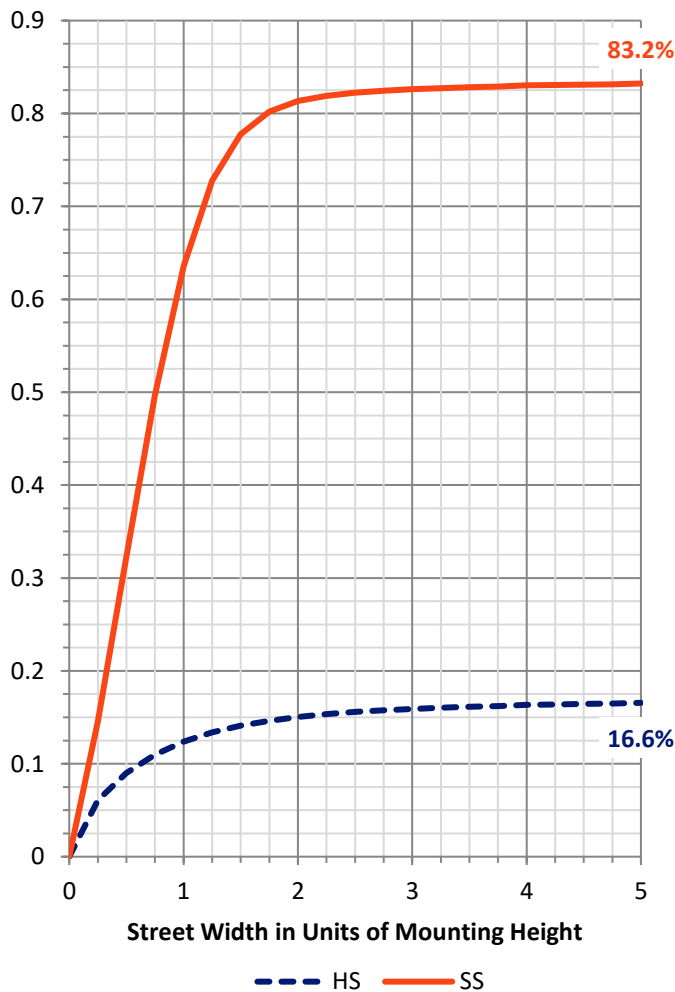
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5120.2	0.0	5120.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	25511.9	0.0	25511.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	30632.1	0.0	30632.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	1.1
10°-20°	1312.6	4.3
20°-30°	2558.1	8.4
30°-40°	4278.3	14.0
40°-50°	6125.8	20.0
50°-60°	7252.1	23.7
60°-70°	6030.1	19.7
70°-80°	2467.7	8.1
80°-90°	262.7	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°	30632.1	100.0
0°-180°	30632.1	100.0

Coefficient of Utilization



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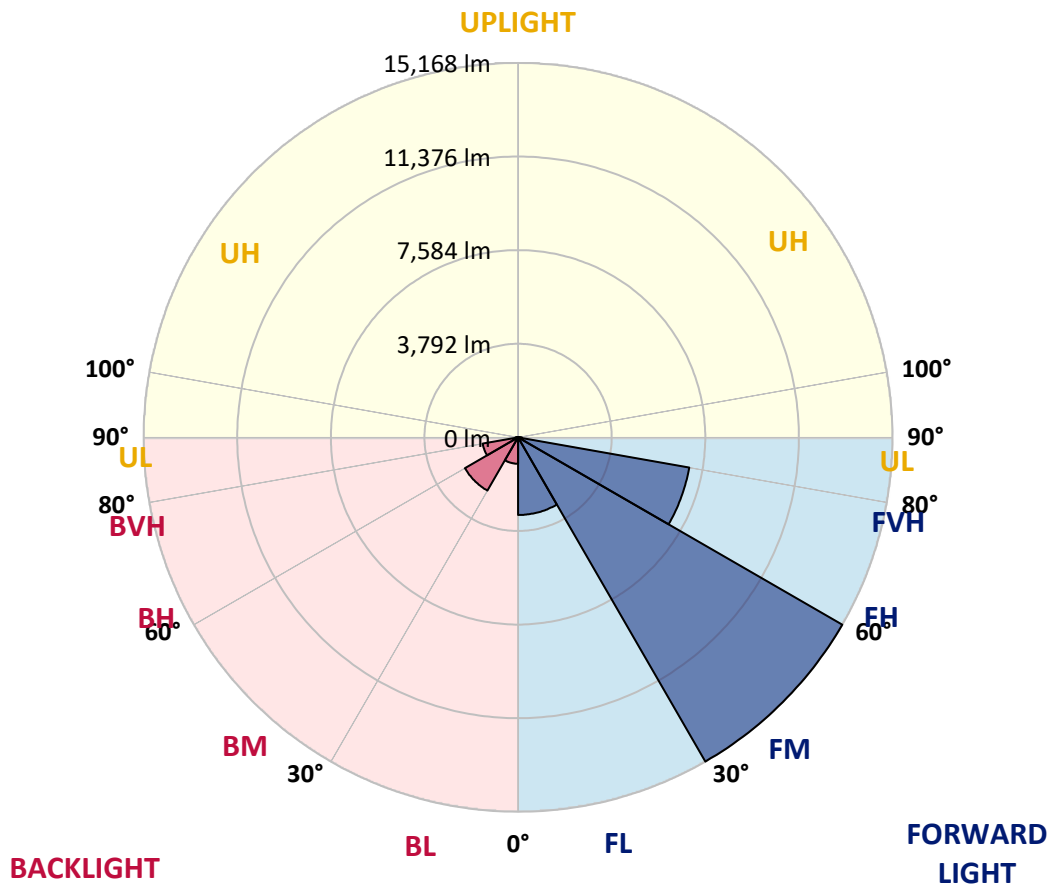
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.3	10.3			
FM (30°-60°)	15167.9	49.5			
FH (60°-80°)	7043.1	23.0			G3/7500
FVH (80°-90°)	156.7	0.5			G2/225
BL (0°-30°)	1071.1	3.5	B3/2500		
BM (30°-60°)	2488.3	8.1	B2/2500		
BH (60°-80°)	1454.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	106.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7
2.5°	4065.8	4080.9	4031.3	4014.1	3897.8	3740.6	3609.2	3411.1	3228.1	3200.1	3036.4
5°	5164.1	5099.5	5043.5	5006.9	4845.3	4666.6	4388.8	4016.3	3626.5	3579.1	3225.9
7.5°	5816.6	5805.8	5736.9	5715.4	5590.5	5411.7	5125.3	4662.3	4095.9	4018.4	3482.2
10°	6339.9	6333.4	6298.9	6318.3	6204.2	6029.8	5752.0	5273.9	4610.6	4533.1	3768.6
12.5°	6796.4	6807.2	6800.7	6871.8	6813.6	6678.0	6389.4	5863.9	5125.3	5041.3	4117.5
15°	7130.2	7138.8	7171.1	7326.2	7358.5	7330.5	7037.6	6443.2	5633.5	5512.9	4477.1
17.5°	7224.9	7242.2	7319.7	7569.5	7743.9	7860.2	7642.7	7033.3	6133.1	6001.8	4843.2
20°	7352.0	7371.4	7448.9	7709.5	7965.7	8230.6	8191.9	7632.0	6637.0	6529.4	5213.6
22.5°	7939.9	7924.8	7890.4	8015.3	8198.3	8527.8	8624.7	8206.9	7158.2	7054.8	5622.8
25°	9072.6	9044.6	8825.0	8710.9	8650.6	8850.8	9023.1	8730.2	7666.4	7511.4	6003.9
27.5°	10321.7	10306.6	10026.6	9755.3	9384.9	9298.8	9400.0	9186.8	8159.6	8002.4	6335.6
30°	11503.9	11458.7	11165.8	10825.6	10330.3	9959.9	9811.3	9634.7	8700.1	8536.4	6723.2
32.5°	12561.3	12503.1	12158.6	11781.7	11262.7	10825.6	10382.0	10110.6	9311.7	9122.2	7119.4
35°	13429.1	13371.0	13017.8	12617.3	12046.6	11723.6	11116.3	10627.5	9934.0	9742.4	7586.7
37.5°	14101.0	14047.2	13678.9	13284.9	12787.4	12531.1	12003.5	11208.9	10651.1	10450.9	8082.0
40°	14477.9	14439.1	14144.1	13831.8	13414.1	13192.3	12955.4	11943.2	11454.4	11254.1	8665.6
42.5°	14592.0	14566.2	14359.4	14197.9	13915.8	13747.9	13883.5	12806.8	12311.5	12137.1	9322.4
45°	14305.6	14305.6	14245.3	14327.1	14340.1	14337.9	14813.8	13782.3	13364.5	13172.9	10248.4
47.5°	13573.4	13620.8	13709.1	14111.8	14536.0	14891.4	15901.3	15083.0	14719.1	14561.9	11559.9
50°	12234.0	12363.2	12664.7	13450.7	14353.0	15257.5	16930.7	17006.1	17352.8	17075.0	13489.4
52.5°	10272.1	10252.8	11021.5	12141.4	13517.4	15272.5	17497.1	18703.0	19635.5	19443.8	14923.7
55°	8163.9	8131.6	8848.7	10392.7	12236.1	14695.4	17837.3	19480.4	20901.7	20729.5	16213.6
57.5°	6251.6	6210.7	6848.1	8241.4	10427.2	13470.1	17772.7	20406.4	22643.9	22555.6	17966.5
60°	4302.7	4253.1	4849.7	6068.5	8286.6	11596.5	17057.8	20882.4	24683.3	24713.4	19842.2
62.5°	2584.2	2556.2	2989.0	3934.4	5960.9	9275.1	15384.5	20593.8	26307.0	26442.7	21048.2
65°	1559.1	1539.7	1793.9	2347.3	3781.5	6768.4	12804.6	19118.7	26541.7	26854.0	21076.2
67.5°	1134.9	1137.0	1210.3	1429.9	2205.2	4371.6	9608.9	16474.2	25318.5	25641.6	19747.5
70°	986.3	990.6	1029.4	1078.9	1333.0	2502.4	6247.3	13004.9	21702.8	21952.6	16562.5
72.5°	876.5	876.5	902.3	928.2	1042.3	1524.7	3346.5	9089.9	17128.8	17195.6	12641.0
75°	770.9	764.5	777.4	790.3	904.5	1066.0	1628.0	6333.4	12651.7	12496.7	8170.3
77.5°	613.7	607.3	609.4	622.4	725.7	762.3	824.8	3956.0	7130.2	6729.6	3609.2
80°	437.2	432.9	456.5	488.8	536.2	467.3	516.8	1914.4	2827.5	2631.6	1399.8
82.5°	260.6	269.2	305.8	331.6	370.4	292.9	333.8	639.6	1001.4	975.5	568.5
85°	36.6	38.8	109.8	127.1	159.4	114.1	176.6	288.6	400.5	428.5	200.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.1	51.7	114.1	116.3	49.5
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°	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7	2900.7
2.5°	2952.4	2851.2	2706.9	2586.3	2485.1	2403.3	2334.4	2282.7	2267.6	2246.1	2246.1
5°	3060.1	2877.1	2618.6	2435.6	2330.1	2267.6	2224.6	2203.0	2192.2	2179.3	2172.9
7.5°	3208.7	2952.4	2603.6	2418.4	2336.5	2297.8	2269.8	2256.9	2248.2	2235.3	2235.3
10°	3413.3	3064.4	2650.9	2478.7	2414.1	2375.3	2343.0	2321.5	2302.1	2282.7	2278.4
12.5°	3635.1	3210.8	2737.1	2560.5	2491.6	2444.2	2399.0	2366.7	2343.0	2319.3	2312.8
15°	3880.6	3361.6	2829.7	2640.2	2554.0	2489.4	2435.6	2386.1	2353.8	2319.3	2315.0
17.5°	4121.8	3514.5	2907.2	2694.0	2584.2	2504.5	2427.0	2362.4	2321.5	2282.7	2271.9
20°	4410.3	3667.4	2961.0	2709.1	2577.7	2472.2	2379.6	2297.8	2252.5	2207.3	2200.9
22.5°	4675.2	3809.5	2986.9	2687.6	2528.2	2403.3	2295.6	2207.3	2157.8	2112.6	2104.0
25°	4931.5	3934.4	2976.1	2635.9	2452.8	2308.5	2196.6	2108.3	2060.9	2013.5	2000.6
27.5°	5179.1	4018.4	2933.0	2556.2	2358.1	2203.0	2095.3	2015.7	1974.7	1933.8	1916.6
30°	5422.5	4095.9	2866.3	2452.8	2237.5	2093.2	2004.9	1948.9	1908.0	1864.9	1852.0
32.5°	5668.0	4151.9	2765.1	2332.2	2114.7	1996.3	1942.4	1901.5	1858.5	1815.4	1802.5
35°	5915.6	4175.6	2642.3	2194.4	2011.4	1933.8	1914.4	1867.1	1808.9	1757.2	1740.0
37.5°	6210.7	4197.1	2489.4	2058.7	1920.9	1903.7	1899.4	1828.3	1759.4	1688.3	1669.0
40°	6566.0	4225.1	2332.2	1936.0	1847.7	1892.9	1875.7	1778.8	1641.0	1572.0	1550.5
42.5°	7001.0	4276.8	2168.6	1824.0	1793.9	1852.0	1832.6	1658.2	1565.6	1526.8	1516.1
45°	7640.6	4466.3	2004.9	1735.7	1752.9	1793.9	1763.7	1587.1	1550.5	1524.7	1511.7
47.5°	8779.8	4757.1	1862.8	1669.0	1720.6	1742.2	1625.9	1567.7	1539.7	1505.3	1490.2
50°	9964.2	4884.1	1748.6	1628.0	1684.0	1694.8	1550.5	1541.9	1522.5	1485.9	1470.8
52.5°	10765.3	4866.9	1679.7	1613.0	1653.9	1613.0	1516.1	1513.9	1501.0	1457.9	1440.7
55°	11669.7	4897.0	1649.6	1617.3	1641.0	1475.1	1473.0	1479.4	1473.0	1425.6	1417.0
57.5°	12890.8	4989.6	1634.5	1632.3	1632.3	1408.4	1432.1	1440.7	1427.8	1406.2	1399.8
60°	14064.4	4996.1	1606.5	1649.6	1625.9	1367.5	1384.7	1393.3	1378.2	1373.9	1371.8
62.5°	14505.9	4686.0	1544.0	1636.6	1600.0	1322.2	1335.2	1339.5	1324.4	1335.2	1333.0
65°	13849.1	4027.0	1440.7	1574.2	1520.4	1281.3	1272.7	1283.5	1257.6	1285.6	1287.8
67.5°	12296.4	3200.1	1283.5	1455.8	1408.4	1236.1	1218.9	1218.9	1175.8	1218.9	1216.7
70°	9914.7	2261.2	1053.1	1266.3	1285.6	1182.3	1173.7	1124.1	1055.2	1119.8	1113.4
72.5°	7515.7	1623.7	829.1	1001.4	1106.9	1106.9	1109.0	1025.1	945.4	975.5	949.7
75°	4761.4	1143.5	663.3	766.6	867.9	971.2	1020.8	865.7	794.6	781.7	768.8
77.5°	2144.9	751.6	516.8	587.9	615.9	766.6	932.5	745.1	648.2	620.2	611.6
80°	898.0	467.3	368.2	415.6	379.0	643.9	822.6	579.3	475.9	437.2	409.2
82.5°	394.1	277.8	234.7	224.0	236.9	478.1	613.7	385.5	297.2	402.7	407.0
85°	165.8	146.4	120.6	109.8	96.9	183.0	288.6	150.7	185.2	105.5	86.1
87.5°	38.8	43.1	32.3	21.5	12.9	2.2	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)