

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: P640471

Luminaire Tested: GWS-SA5D-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23676.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

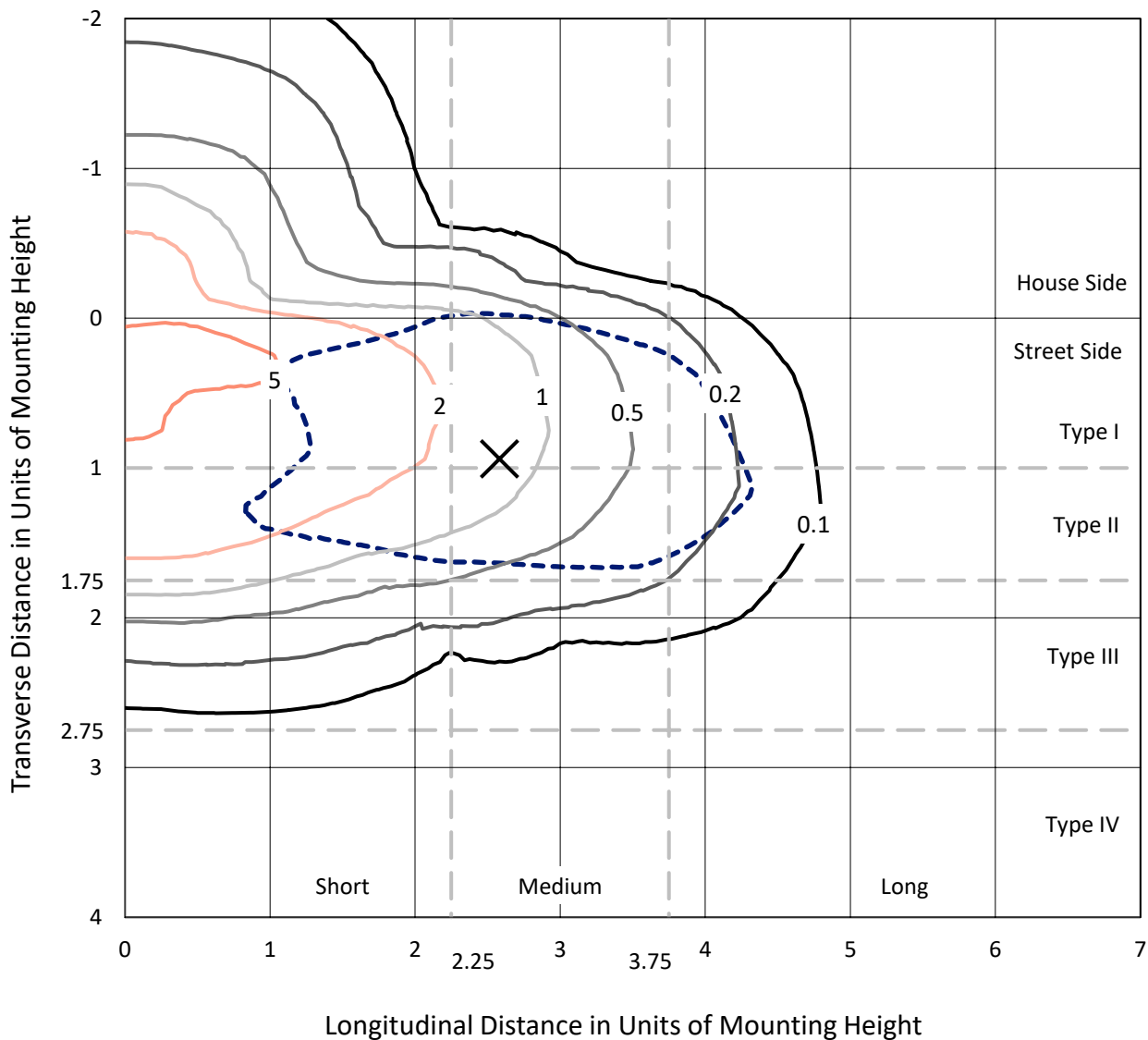
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

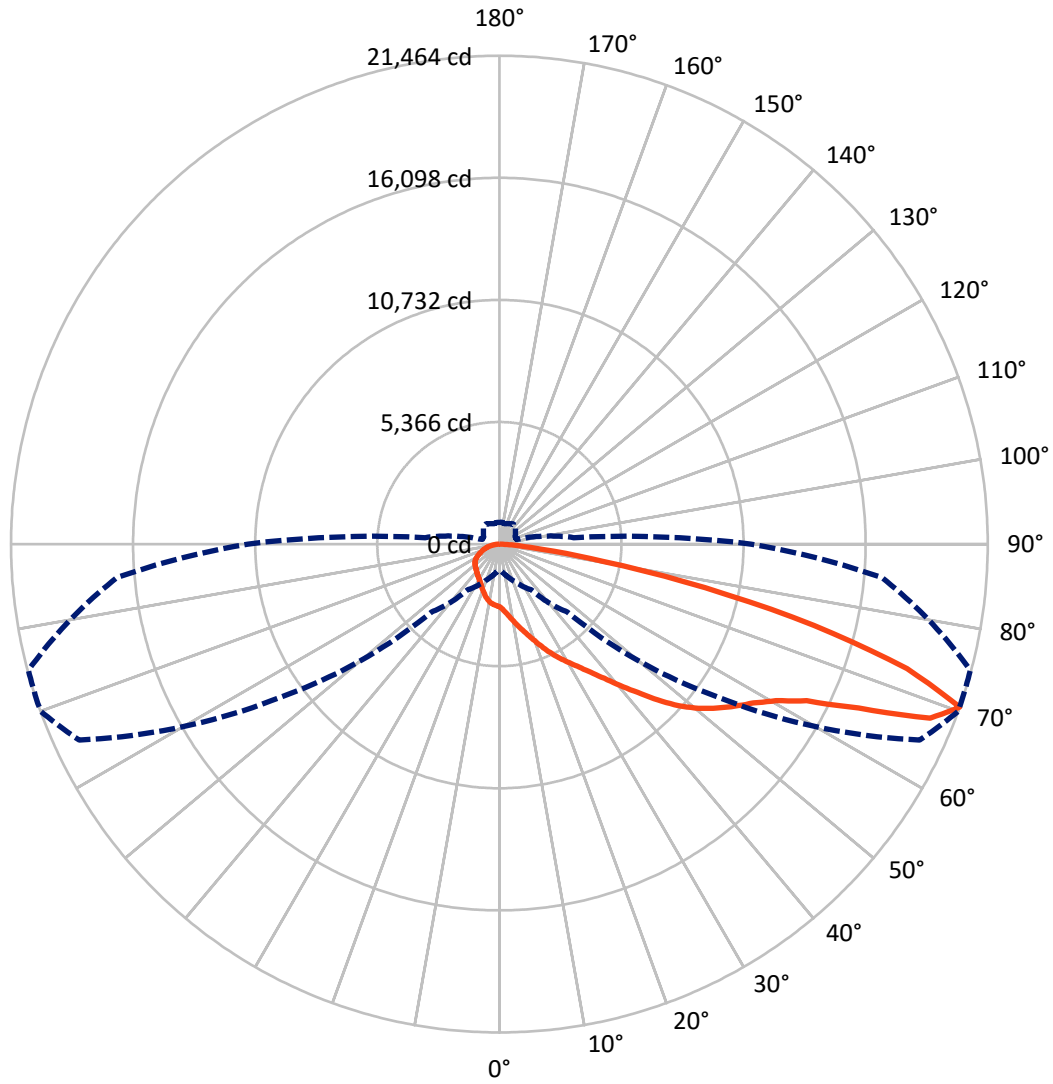
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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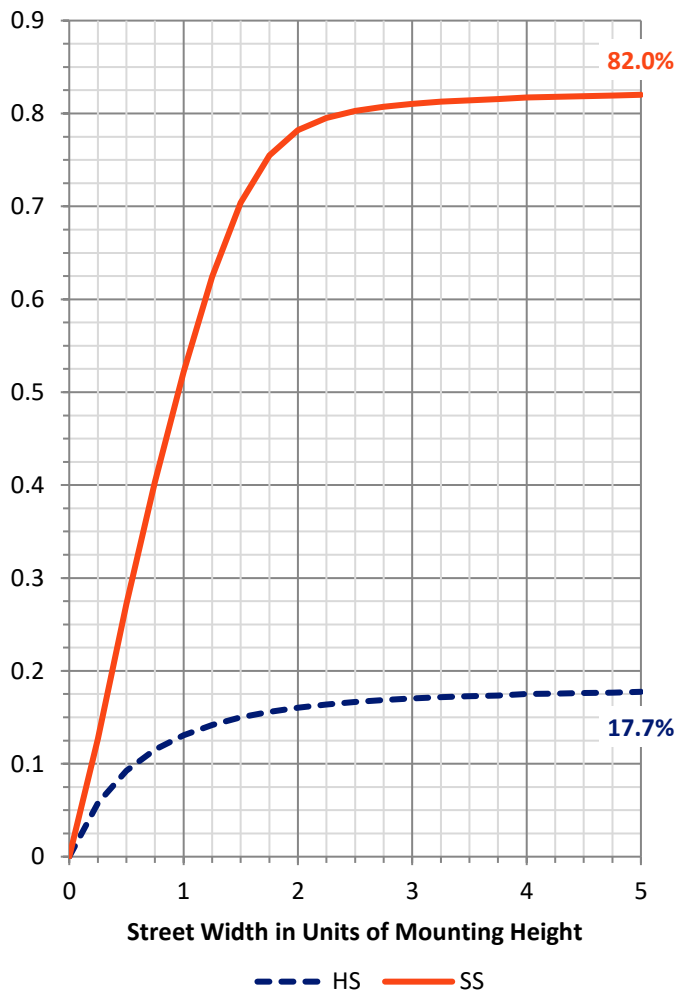
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4242.9	0.0	4242.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	19433.9	0.0	19433.9
	% Fixture	82.1	0.0	82.1
Total	Lumens	23676.8	0.0	23676.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.2
10°-20°	912.9	3.9
20°-30°	1617.3	6.8
30°-40°	2434.1	10.3
40°-50°	3682.5	15.6
50°-60°	5275.3	22.3
60°-70°	5831.3	24.6
70°-80°	3290.7	13.9
80°-90°	352.0	1.5
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°	23676.8	100.0
0°-180°	23676.8	100.0

Coefficient of Utilization



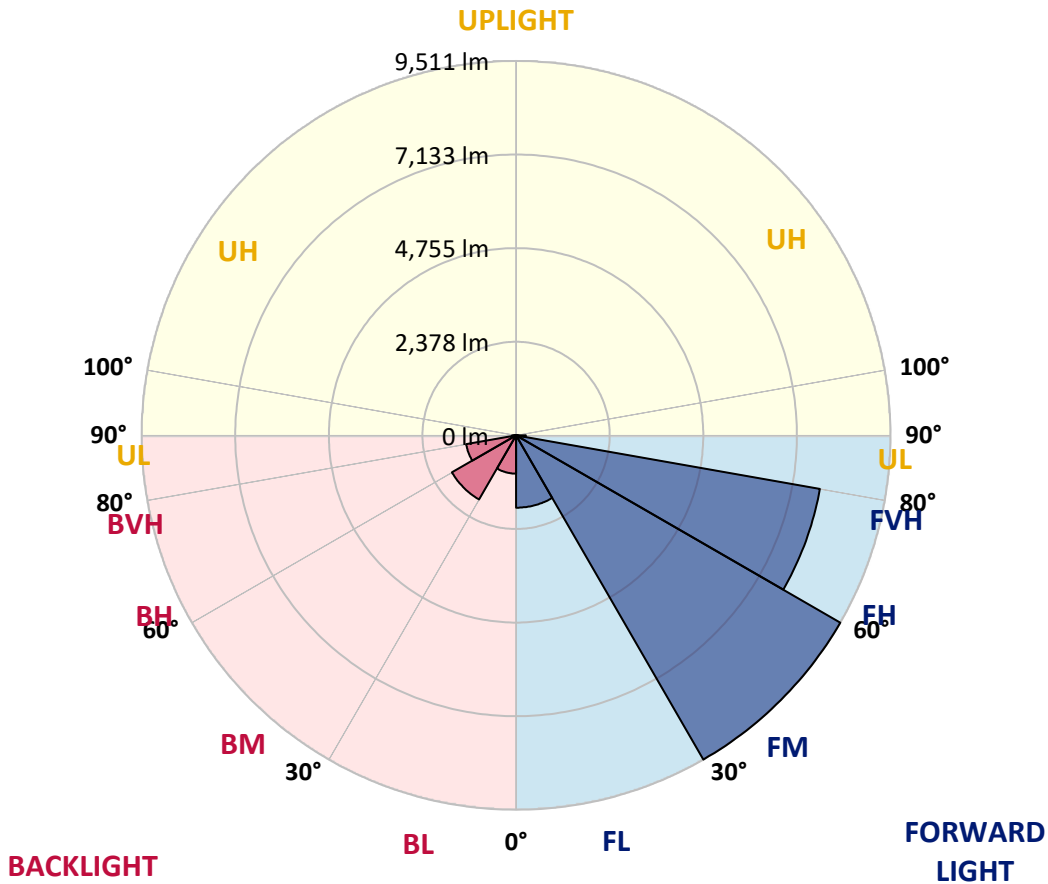
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1838.0	7.8			
FM (30°-60°)	9511.0	40.2			
FH (60°-80°)	7836.0	33.1			G4/12000
FVH (80°-90°)	248.8	1.1			G3/500
BL (0°-30°)	972.8	4.1	B2/1000		
BM (30°-60°)	1880.9	7.9	B2/2500		
BH (60°-80°)	1286.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	103.2	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	3058.9	3053.7	3057.2	3053.7	3034.9	2988.7	2951.1	2903.2	2870.7	2851.9	2807.4
5°	3418.1	3413.0	3401.0	3383.9	3349.7	3286.4	3192.3	3088.0	3024.7	2976.8	2882.7
7.5°	3676.5	3676.5	3674.8	3654.2	3630.3	3563.6	3452.4	3315.5	3223.1	3141.0	2987.0
10°	3808.2	3816.8	3828.7	3857.8	3852.7	3816.8	3712.4	3565.3	3448.9	3353.1	3123.9
12.5°	3880.1	3885.2	3905.7	3965.6	4027.2	4035.7	3974.2	3820.2	3693.6	3565.3	3276.2
15°	3972.4	3974.2	4001.5	4073.4	4164.0	4254.7	4239.3	4085.4	3955.3	3813.3	3445.5
17.5°	4044.3	4056.3	4105.9	4189.7	4302.6	4427.5	4502.8	4407.0	4246.2	4083.6	3630.3
20°	4070.0	4078.5	4143.5	4271.8	4425.8	4602.0	4769.7	4744.0	4581.5	4389.9	3839.0
22.5°	4162.3	4162.3	4210.2	4318.0	4499.4	4756.0	5028.0	5094.7	4951.0	4726.9	4063.1
25°	4365.9	4359.1	4381.3	4425.8	4562.7	4879.2	5282.9	5483.1	5322.2	5070.8	4287.2
27.5°	4644.8	4641.4	4639.6	4646.5	4692.7	4986.9	5498.5	5845.7	5684.9	5400.9	4487.4
30°	4947.6	4937.3	4959.6	4939.0	4928.8	5115.2	5681.5	6170.8	6045.9	5727.7	4653.3
32.5°	5359.9	5341.1	5335.9	5269.2	5228.2	5315.4	5828.6	6540.3	6441.1	6080.1	4839.8
35°	5903.9	5886.8	5799.6	5693.5	5572.0	5613.1	6011.7	6901.3	6908.1	6521.5	5084.4
37.5°	6453.1	6456.5	6388.1	6138.3	6013.4	5989.5	6290.6	7341.0	7488.1	7048.4	5400.9
40°	6909.9	6930.4	6930.4	6666.9	6480.4	6458.2	6682.3	7862.8	8155.3	7695.1	5801.3
42.5°	7257.1	7276.0	7335.8	7145.9	6949.2	7026.2	7157.9	8386.3	8911.5	8494.0	6307.7
45°	7638.7	7654.0	7686.6	7577.1	7462.4	7667.7	7696.8	9012.4	9777.1	9390.5	6896.2
47.5°	8145.0	8131.4	8134.8	8054.4	7965.4	8297.3	8290.5	9539.3	10613.7	10372.5	7534.3
50°	8774.6	8800.3	8776.3	8617.2	8512.9	8815.7	8855.0	10122.7	11349.3	11344.2	8177.5
52.5°	9380.2	9390.5	9517.1	9523.9	9310.1	9246.8	9349.4	10711.2	11970.4	12233.8	8795.1
55°	9411.0	9450.4	9830.2	10103.9	10449.5	9941.4	9849.0	11272.4	12570.8	13104.6	9436.7
57.5°	8755.8	8819.1	9464.1	10054.3	11015.7	11133.8	10704.4	11997.7	13171.3	13961.7	10179.2
60°	7356.4	7488.1	8364.0	9267.3	10760.8	11990.9	12454.5	12983.1	13960.0	14837.6	11080.7
62.5°	4697.8	4749.1	5977.5	7489.8	9612.9	11907.1	14360.3	14719.6	15161.0	15978.7	12469.9
65°	2352.3	2516.6	3236.8	4470.3	6932.1	10492.2	15323.5	17899.9	17359.3	17932.4	14721.3
67.5°	1596.2	1649.2	2013.6	2685.9	4064.8	7433.4	14726.4	20579.0	20419.9	20514.0	17121.5
70°	1177.0	1211.2	1498.6	1902.4	2458.4	4220.5	11724.0	20377.1	21463.5	21429.3	16870.0
72.5°	858.8	875.9	1093.2	1452.5	1822.0	2183.0	7159.6	16461.2	18736.5	19723.6	14753.8
75°	624.4	645.0	759.6	1086.3	1416.5	1361.8	3534.5	11889.9	14288.5	16187.4	12020.0
77.5°	465.3	491.0	544.0	680.9	992.3	975.1	1527.7	7720.8	9241.7	10572.6	7301.6
80°	335.3	340.4	371.2	436.2	629.6	571.4	727.1	4025.5	4615.7	5057.1	2862.1
82.5°	203.6	208.7	248.1	268.6	390.1	359.3	378.1	1303.6	1868.2	1982.8	1069.2
85°	59.9	63.3	112.9	123.2	162.5	154.0	152.3	530.3	633.0	809.2	420.9
87.5°	0.0	0.0	0.0	0.0	1.7	10.3	18.8	94.1	142.0	196.7	102.6
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°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	2790.3	2750.9	2730.4	2694.5	2668.8	2643.2	2617.5	2593.5	2583.3	2567.9	2571.3
5°	2839.9	2778.3	2716.7	2646.6	2586.7	2537.1	2492.6	2453.3	2436.2	2420.8	2427.6
7.5°	2915.2	2822.8	2704.7	2576.4	2482.3	2413.9	2367.7	2340.4	2331.8	2319.8	2319.8
10°	3011.0	2872.4	2665.4	2482.3	2369.4	2314.7	2294.2	2292.5	2301.0	2302.7	2299.3
12.5°	3117.0	2920.3	2607.2	2371.1	2275.3	2258.2	2273.6	2302.7	2331.8	2347.2	2343.8
15°	3226.5	2951.1	2508.0	2265.1	2206.9	2229.2	2278.8	2336.9	2393.4	2422.5	2420.8
17.5°	3329.2	2957.9	2379.7	2162.4	2147.0	2203.5	2289.0	2379.7	2456.7	2497.7	2499.5
20°	3443.8	2946.0	2248.0	2070.0	2087.2	2179.5	2292.5	2401.9	2492.6	2533.7	2543.9
22.5°	3548.2	2904.9	2119.7	1982.8	2035.8	2150.5	2265.1	2367.7	2448.1	2487.5	2501.2
25°	3642.3	2826.2	1979.4	1909.2	1996.5	2109.4	2196.6	2268.5	2325.0	2348.9	2367.7
27.5°	3693.6	2708.2	1873.3	1851.1	1958.8	2051.2	2099.1	2121.4	2140.2	2133.3	2147.0
30°	3703.8	2561.0	1780.9	1804.9	1902.4	1970.8	1981.1	1958.8	1926.3	1873.3	1885.3
32.5°	3693.6	2391.7	1703.9	1755.3	1839.1	1880.2	1866.5	1808.3	1729.6	1647.5	1652.6
35°	3697.0	2220.6	1640.6	1700.5	1765.5	1787.8	1753.6	1673.1	1589.3	1514.0	1510.6
37.5°	3734.6	2076.9	1587.6	1647.5	1693.7	1697.1	1659.5	1575.6	1532.9	1476.4	1469.6
40°	3839.0	1970.8	1539.7	1594.5	1623.5	1621.8	1579.1	1519.2	1548.3	1529.4	1524.3
42.5°	4010.1	1905.8	1500.4	1538.0	1558.5	1561.9	1527.7	1490.1	1553.4	1529.4	1520.9
45°	4285.5	1902.4	1473.0	1481.5	1514.0	1538.0	1514.0	1471.3	1495.2	1378.9	1356.7
47.5°	4612.3	1960.6	1452.5	1431.9	1488.4	1531.2	1493.5	1425.1	1375.5	1269.4	1254.0
50°	5005.8	2078.6	1433.6	1378.9	1450.7	1505.5	1467.9	1373.8	1298.5	1242.0	1233.5
52.5°	5472.8	2234.3	1409.7	1319.0	1394.3	1491.8	1467.9	1368.6	1269.4	1218.1	1209.5
55°	5962.1	2413.9	1382.3	1247.2	1331.0	1495.2	1479.8	1332.7	1247.2	1219.8	1212.9
57.5°	6569.4	2629.5	1332.7	1163.3	1274.5	1464.4	1431.9	1312.2	1231.8	1209.5	1202.7
60°	7358.1	2949.4	1238.6	1077.8	1209.5	1409.7	1389.2	1278.0	1190.7	1171.9	1166.8
62.5°	8607.0	3491.7	1124.0	995.7	1132.5	1295.1	1325.9	1212.9	1139.4	1137.7	1136.0
65°	10642.8	4143.5	988.8	922.1	1052.1	1201.0	1242.0	1146.2	1086.3	1105.2	1103.5
67.5°	12069.6	4200.0	877.6	845.1	958.0	1098.3	1158.2	1077.8	1012.8	1048.7	1047.0
70°	11055.1	3276.2	781.8	764.7	857.1	987.1	1067.5	992.3	927.2	961.5	954.6
72.5°	9323.8	2511.4	691.2	680.9	754.5	870.8	951.2	906.7	838.3	838.3	822.9
75°	7493.2	2071.8	595.4	590.2	639.8	752.7	843.4	768.1	704.8	701.4	691.2
77.5°	4297.5	1358.4	499.5	496.1	511.5	629.6	655.2	639.8	591.9	569.7	562.8
80°	1712.5	706.6	393.5	371.2	386.6	461.9	516.7	491.0	449.9	422.6	407.2
82.5°	663.8	354.1	277.1	242.9	265.2	333.6	374.7	366.1	338.7	277.1	260.0
85°	270.3	172.8	165.9	140.3	154.0	179.6	215.6	186.5	154.0	109.5	104.4
87.5°	71.9	63.3	61.6	37.6	29.1	8.6	1.7	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)