

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: P640031

Luminaire Tested: GWS-SA5D-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640031
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-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21954.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

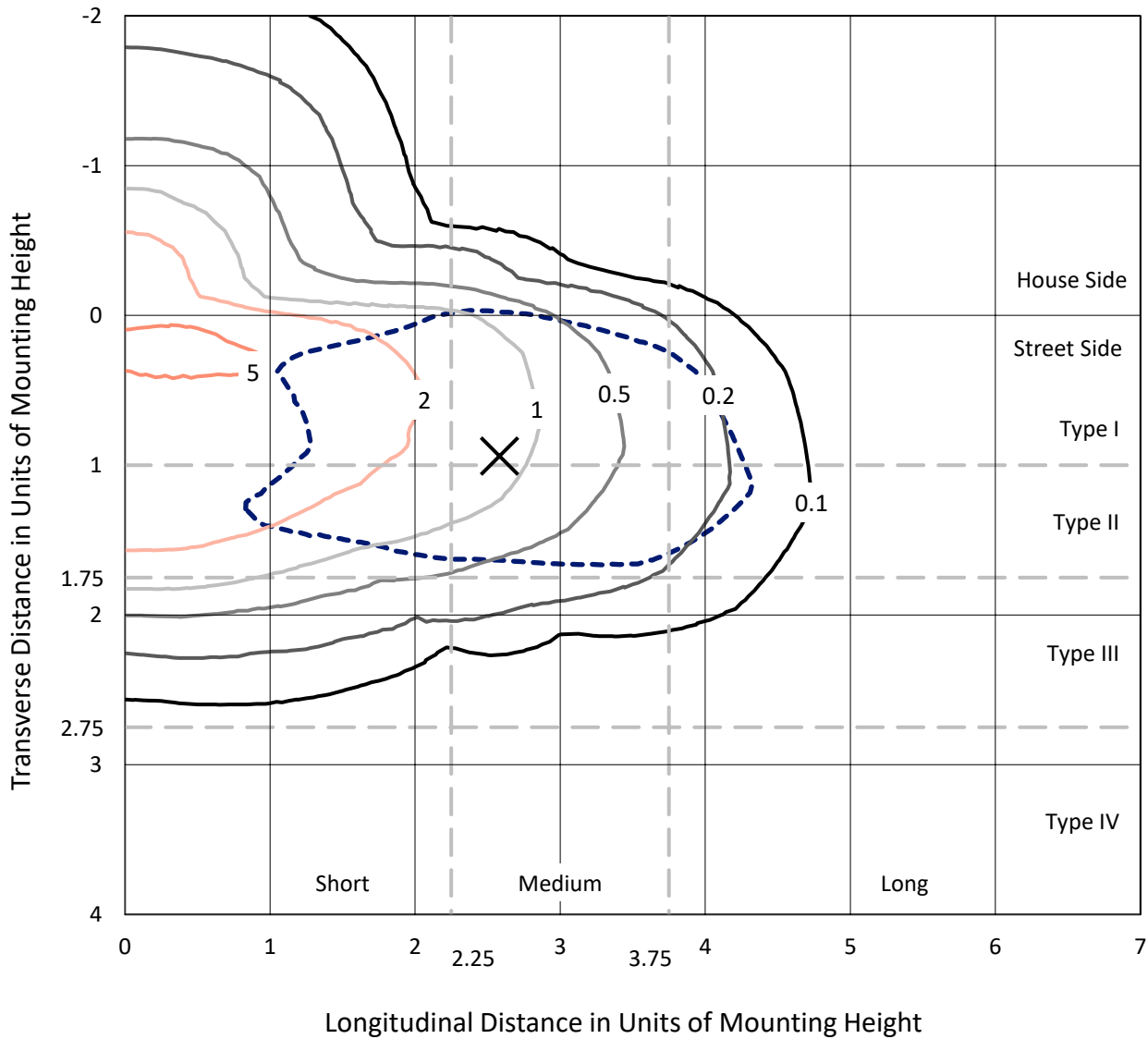
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

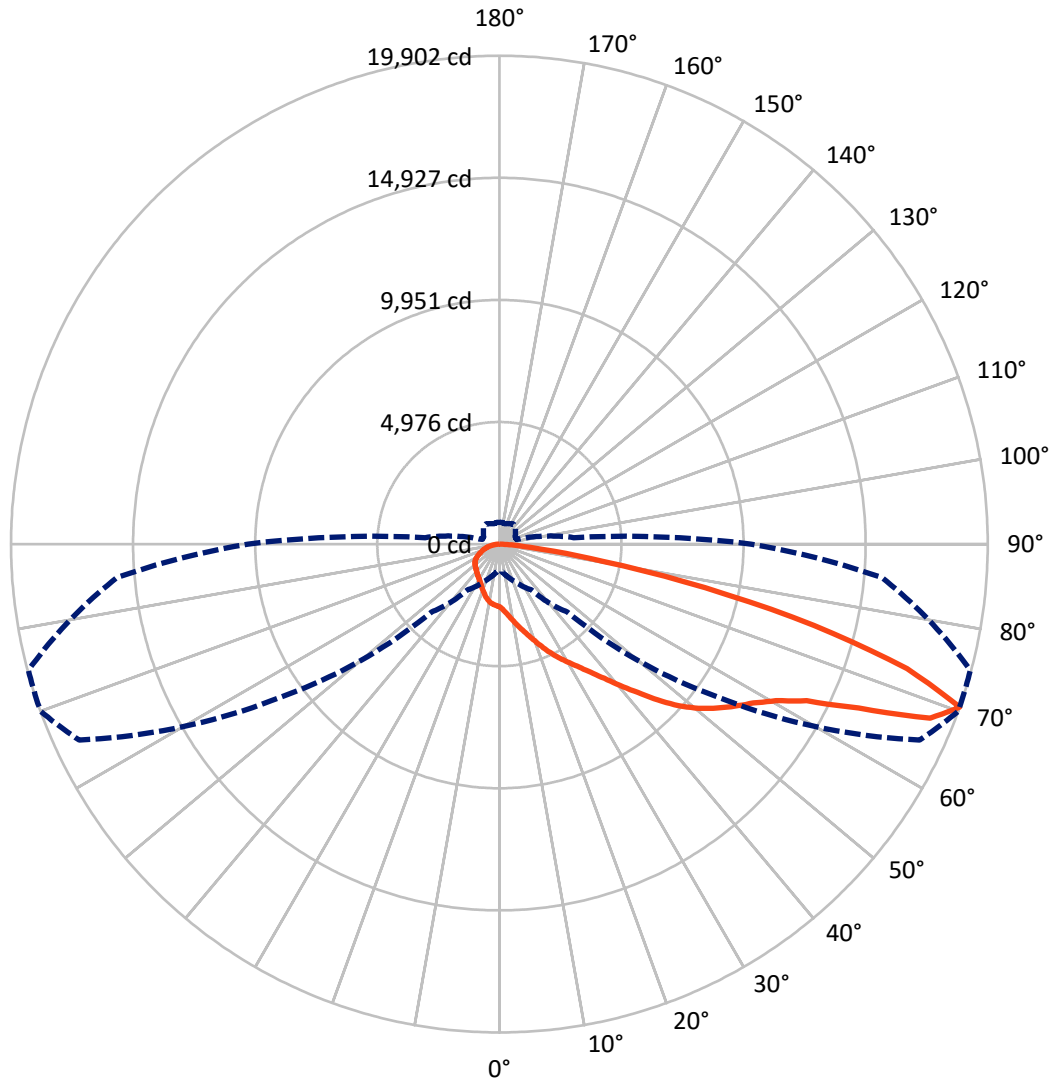
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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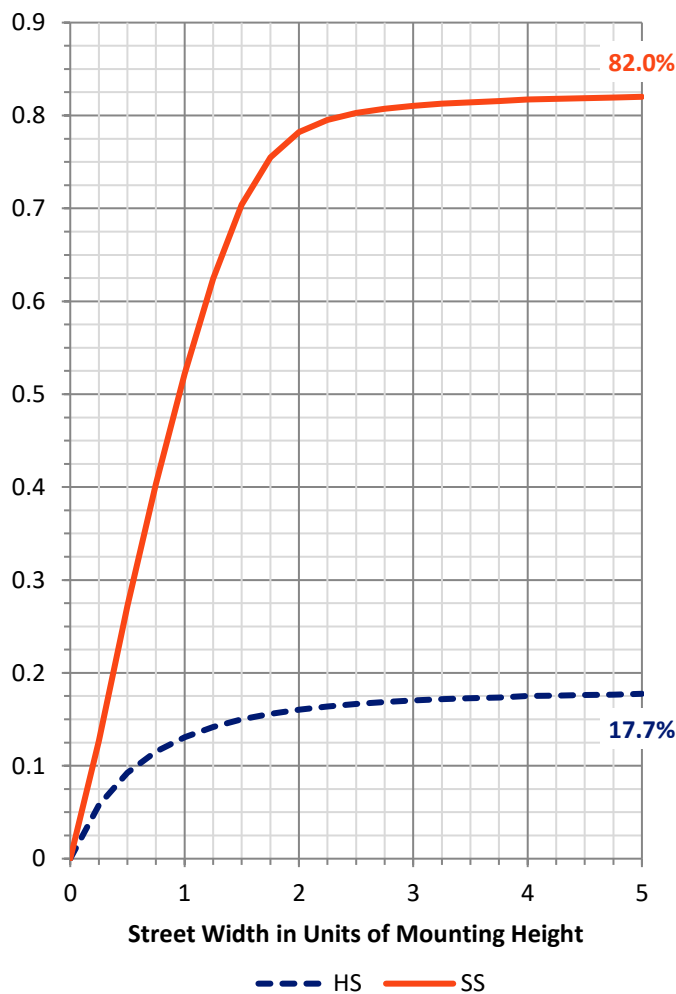
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3934.3	0.0	3934.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	18020.0	0.0	18020.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	21954.3	0.0	21954.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	1.2
10°-20°	846.5	3.9
20°-30°	1499.6	6.8
30°-40°	2257.0	10.3
40°-50°	3414.6	15.6
50°-60°	4891.5	22.3
60°-70°	5407.1	24.6
70°-80°	3051.3	13.9
80°-90°	326.4	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°	21954.3	100.0
0°-180°	21954.3	100.0

Coefficient of Utilization



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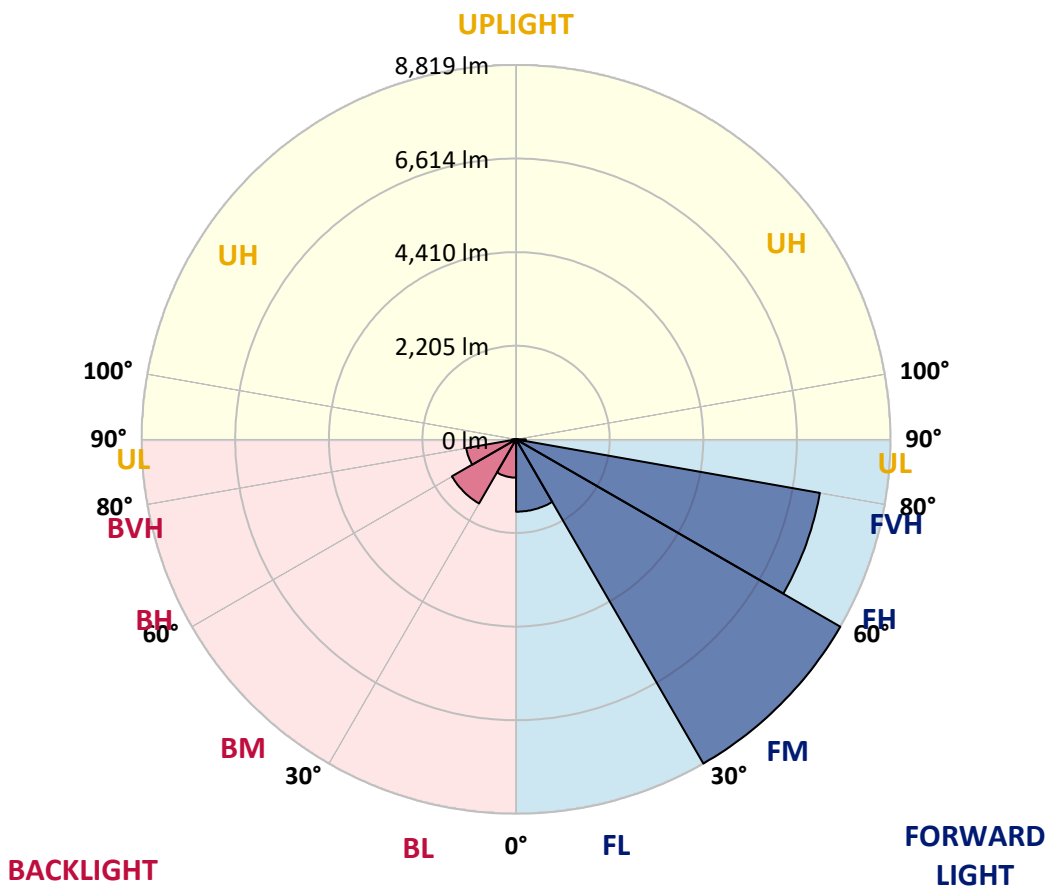
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1704.3	7.8			
FM (30°-60°)	8819.0	40.2			
FH (60°-80°)	7266.0	33.1			G3/7500
FVH (80°-90°)	230.7	1.1			G3/500
BL (0°-30°)	902.1	4.1	B2/1000		
BM (30°-60°)	1744.1	7.9	B2/2500		
BH (60°-80°)	1192.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	95.7	0.4			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3
2.5°	2836.3	2831.6	2834.8	2831.6	2814.1	2771.3	2736.4	2692.0	2661.9	2644.4	2603.2
5°	3169.5	3164.7	3153.6	3137.7	3106.0	3047.3	2960.1	2863.3	2804.6	2760.2	2673.0
7.5°	3409.0	3409.0	3407.4	3388.4	3366.2	3304.3	3201.2	3074.3	2988.6	2912.5	2769.7
10°	3531.2	3539.1	3550.2	3577.2	3572.4	3539.1	3442.3	3305.9	3198.0	3109.2	2896.6
12.5°	3597.8	3602.5	3621.6	3677.1	3734.2	3742.1	3685.0	3542.3	3424.9	3305.9	3037.8
15°	3683.4	3685.0	3710.4	3777.0	3861.1	3945.2	3930.9	3788.1	3667.6	3535.9	3194.9
17.5°	3750.1	3761.2	3807.2	3884.9	3989.6	4105.4	4175.2	4086.4	3937.3	3786.6	3366.2
20°	3773.9	3781.8	3842.1	3961.0	4103.8	4267.2	4422.7	4398.9	4248.2	4070.5	3559.7
22.5°	3859.5	3859.5	3903.9	4003.9	4172.0	4410.0	4662.2	4724.1	4590.8	4383.0	3767.5
25°	4048.3	4042.0	4062.6	4103.8	4230.7	4524.2	4898.6	5084.2	4935.1	4701.9	3975.3
27.5°	4306.9	4303.7	4302.1	4308.5	4351.3	4624.1	5098.4	5420.5	5271.4	5008.0	4160.9
30°	4587.6	4578.1	4598.8	4579.7	4570.2	4743.1	5268.2	5721.9	5606.1	5311.0	4314.8
32.5°	4970.0	4952.5	4947.7	4885.9	4847.8	4928.7	5404.6	6064.5	5972.5	5637.8	4487.7
35°	5474.4	5458.5	5377.6	5279.3	5166.7	5204.7	5574.3	6399.2	6405.6	6047.1	4714.6
37.5°	5983.6	5986.8	5923.3	5691.7	5575.9	5553.7	5832.9	6806.9	6943.3	6535.7	5008.0
40°	6407.2	6426.2	6426.2	6181.9	6009.0	5988.4	6196.2	7290.7	7562.0	7135.3	5379.2
42.5°	6729.2	6746.6	6802.2	6626.1	6443.6	6515.0	6637.2	7776.2	8263.2	7876.1	5848.8
45°	7082.9	7097.2	7127.4	7025.8	6919.5	7109.9	7136.9	8356.8	9065.8	8707.3	6394.5
47.5°	7552.5	7539.8	7543.0	7468.4	7385.9	7693.7	7687.3	8845.3	9841.6	9617.9	6986.2
50°	8136.3	8160.0	8137.8	7990.3	7893.5	8174.3	8210.8	9386.3	10523.7	10518.9	7582.6
52.5°	8697.8	8707.3	8824.7	8831.1	8632.8	8574.1	8669.3	9932.0	11099.5	11343.8	8155.3
55°	8726.4	8762.9	9115.0	9368.8	9689.3	9218.1	9132.5	10452.3	11656.3	12151.2	8750.2
57.5°	8118.8	8177.5	8775.5	9322.8	10214.3	10323.8	9925.6	11124.9	12213.1	12946.0	9438.6
60°	6821.2	6943.3	7755.5	8593.1	9978.0	11118.5	11548.4	12038.6	12944.4	13758.2	10274.6
62.5°	4356.0	4403.6	5542.6	6944.9	8913.6	11040.8	13315.6	13648.7	14058.0	14816.3	11562.7
65°	2181.2	2333.5	3001.3	4145.1	6427.8	9728.9	14208.7	16597.7	16096.4	16627.8	13650.3
67.5°	1480.0	1529.2	1867.1	2490.5	3769.1	6892.6	13655.1	19081.9	18934.4	19021.6	15875.9
70°	1091.4	1123.1	1389.6	1764.0	2279.5	3913.5	10871.1	18894.7	19902.0	19870.3	15642.7
72.5°	796.3	812.2	1013.7	1346.8	1689.4	2024.1	6638.8	15263.6	17373.4	18288.7	13680.5
75°	579.0	598.0	704.3	1007.3	1313.5	1262.7	3277.3	11024.9	13249.0	15009.8	11145.5
77.5°	431.5	455.3	504.5	631.4	920.1	904.2	1416.6	7159.1	8569.3	9803.5	6770.4
80°	310.9	315.7	344.2	404.5	583.8	529.8	674.2	3732.6	4279.9	4689.2	2653.9
82.5°	188.8	193.5	230.0	249.1	361.7	333.1	350.6	1208.8	1732.3	1838.5	991.5
85°	55.5	58.7	104.7	114.2	150.7	142.8	141.2	491.8	586.9	750.3	390.2
87.5°	0.0	0.0	0.0	0.0	1.6	9.5	17.4	87.2	131.7	182.4	95.2
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°	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3	2560.3
2.5°	2587.3	2550.8	2531.8	2498.5	2474.7	2450.9	2427.1	2404.9	2395.3	2381.1	2384.2
5°	2633.3	2576.2	2519.1	2454.0	2398.5	2352.5	2311.3	2274.8	2258.9	2244.6	2251.0
7.5°	2703.1	2617.4	2508.0	2389.0	2301.8	2238.3	2195.5	2170.1	2162.2	2151.1	2151.1
10°	2791.9	2663.4	2471.5	2301.8	2197.1	2146.3	2127.3	2125.7	2133.6	2135.2	2132.0
12.5°	2890.3	2707.9	2417.6	2198.6	2109.8	2093.9	2108.2	2135.2	2162.2	2176.4	2173.3
15°	2991.8	2736.4	2325.6	2100.3	2046.4	2067.0	2113.0	2166.9	2219.3	2246.2	2244.6
17.5°	3087.0	2742.8	2206.6	2005.1	1990.8	2043.2	2122.5	2206.6	2278.0	2316.0	2317.6
20°	3193.3	2731.6	2084.4	1919.5	1935.3	2021.0	2125.7	2227.2	2311.3	2349.3	2358.9
22.5°	3290.0	2693.6	1965.5	1838.5	1887.7	1994.0	2100.3	2195.5	2270.0	2306.5	2319.2
25°	3377.3	2620.6	1835.4	1770.3	1851.2	1955.9	2036.8	2103.5	2155.8	2178.0	2195.5
27.5°	3424.9	2511.1	1737.0	1716.4	1816.3	1902.0	1946.4	1967.0	1984.5	1978.1	1990.8
30°	3434.4	2374.7	1651.4	1673.6	1764.0	1827.4	1837.0	1816.3	1786.2	1737.0	1748.1
32.5°	3424.9	2217.7	1580.0	1627.6	1705.3	1743.4	1730.7	1676.7	1603.8	1527.6	1532.4
35°	3428.0	2059.0	1521.3	1576.8	1637.1	1657.7	1626.0	1551.4	1473.7	1403.9	1400.7
37.5°	3462.9	1925.8	1472.1	1527.6	1570.5	1573.6	1538.7	1461.0	1421.3	1369.0	1362.7
40°	3559.7	1827.4	1427.7	1478.5	1505.4	1503.8	1464.2	1408.7	1435.6	1418.2	1413.4
42.5°	3718.3	1767.2	1391.2	1426.1	1445.1	1448.3	1416.6	1381.7	1440.4	1418.2	1410.2
45°	3973.7	1764.0	1365.8	1373.8	1403.9	1426.1	1403.9	1364.2	1386.4	1278.6	1258.0
47.5°	4276.7	1817.9	1346.8	1327.8	1380.1	1419.8	1384.9	1321.4	1275.4	1177.1	1162.8
50°	4641.6	1927.4	1329.3	1278.6	1345.2	1396.0	1361.1	1273.8	1204.0	1151.7	1143.7
52.5°	5074.6	2071.7	1307.1	1223.1	1292.9	1383.3	1361.1	1269.1	1177.1	1129.5	1121.5
55°	5528.3	2238.3	1281.7	1156.4	1234.2	1386.4	1372.2	1235.7	1156.4	1131.0	1124.7
57.5°	6091.5	2438.2	1235.7	1078.7	1181.8	1357.9	1327.8	1216.7	1142.2	1121.5	1115.2
60°	6822.8	2734.8	1148.5	999.4	1121.5	1307.1	1288.1	1185.0	1104.1	1086.6	1081.9
62.5°	7980.8	3237.7	1042.2	923.2	1050.1	1200.8	1229.4	1124.7	1056.5	1054.9	1053.3
65°	9868.5	3842.1	916.9	855.0	975.6	1113.6	1151.7	1062.8	1007.3	1024.8	1023.2
67.5°	11191.5	3894.4	813.8	783.6	888.3	1018.4	1073.9	999.4	939.1	972.4	970.8
70°	10250.8	3037.8	724.9	709.1	794.7	915.3	989.9	920.1	859.8	891.5	885.2
72.5°	8645.5	2328.7	640.9	631.4	699.6	807.4	882.0	840.8	777.3	777.3	763.0
75°	6948.1	1921.0	552.0	547.3	593.3	698.0	782.1	712.3	653.6	650.4	640.9
77.5°	3984.8	1259.5	463.2	460.0	474.3	583.8	607.6	593.3	548.9	528.2	521.9
80°	1587.9	655.2	364.9	344.2	358.5	428.3	479.1	455.3	417.2	391.8	377.5
82.5°	615.5	328.4	257.0	225.3	245.9	309.3	347.4	339.5	314.1	257.0	241.1
85°	250.6	160.2	153.9	130.1	142.8	166.6	199.9	172.9	142.8	101.5	96.8
87.5°	66.6	58.7	57.1	34.9	27.0	7.9	1.6	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)