

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: P640041

Luminaire Tested: GWS-SA5D-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19400.4 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

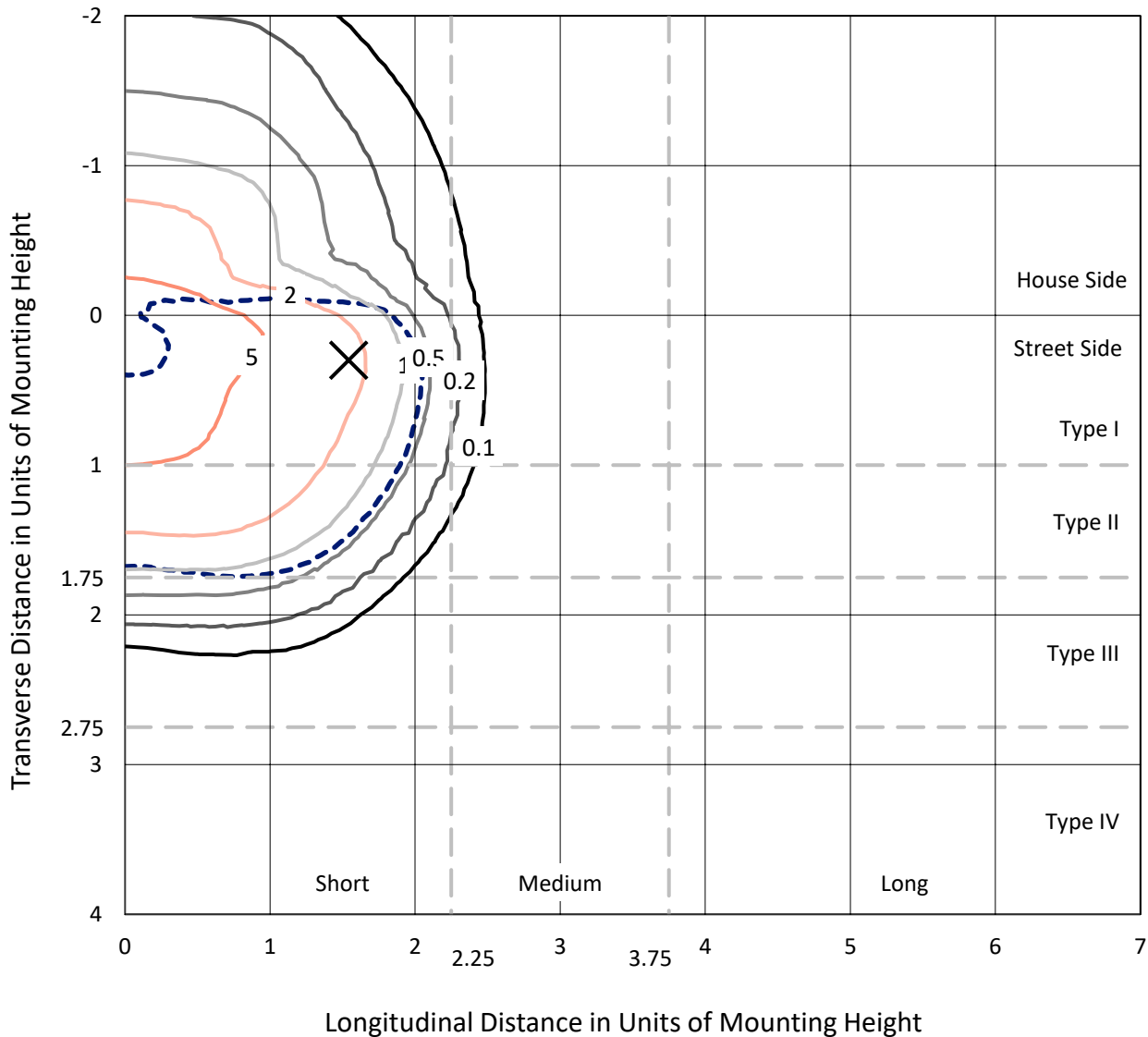
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

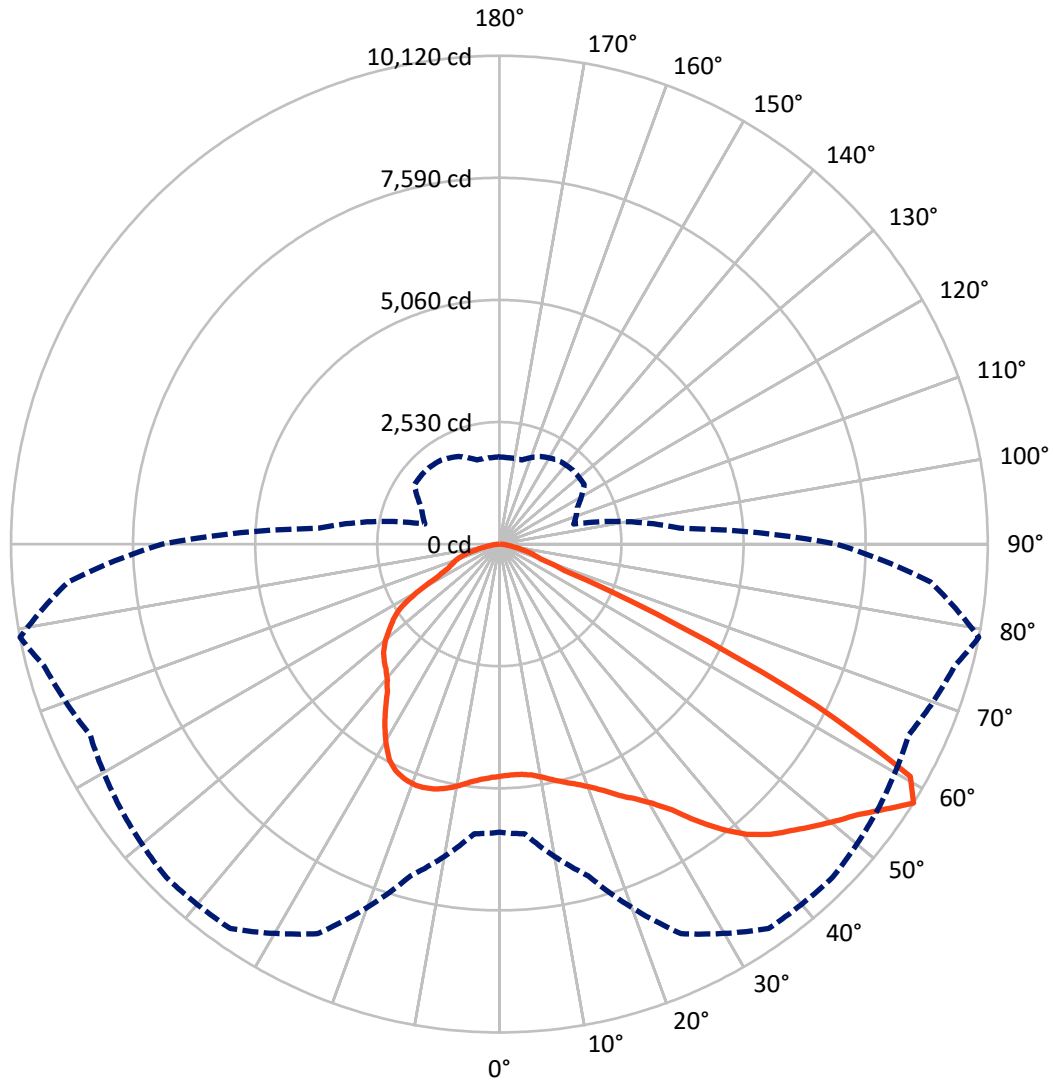
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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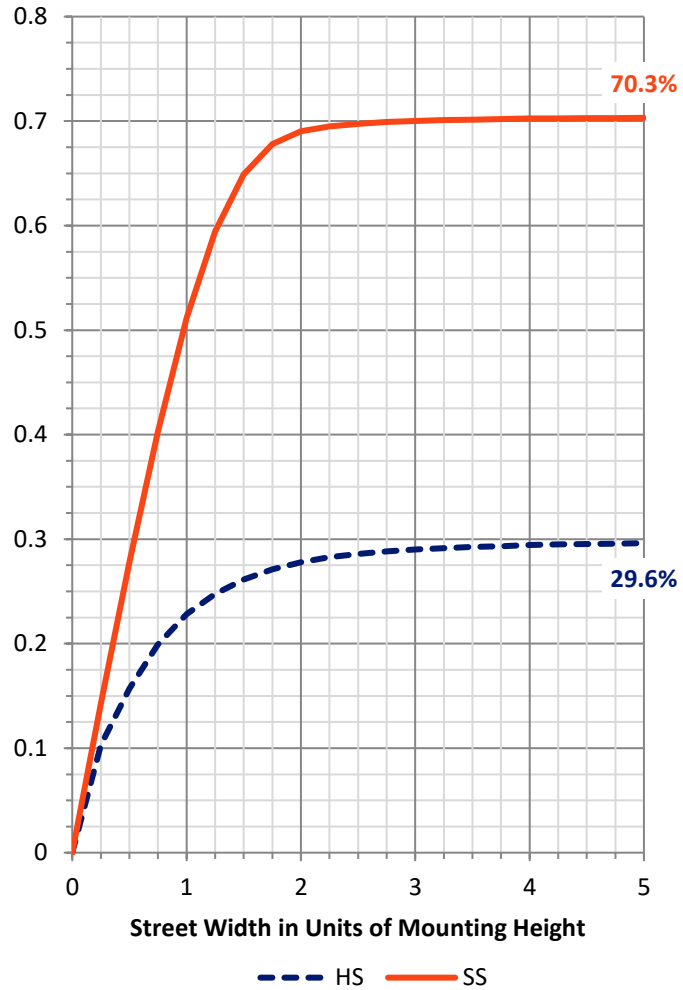
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5766.8	0.0	5766.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	13633.6	0.0	13633.6
	% Fixture	70.3	0.0	70.3
Total	Lumens	19400.4	0.0	19400.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	2.3
10°-20°	1237.3	6.4
20°-30°	2097.4	10.8
30°-40°	3210.3	16.5
40°-50°	4280.6	22.1
50°-60°	4943.8	25.5
60°-70°	2569.0	13.2
70°-80°	546.1	2.8
80°-90°	70.7	0.4
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°	19400.4	100.0
0°-180°	19400.4	100.0

Coefficient of Utilization



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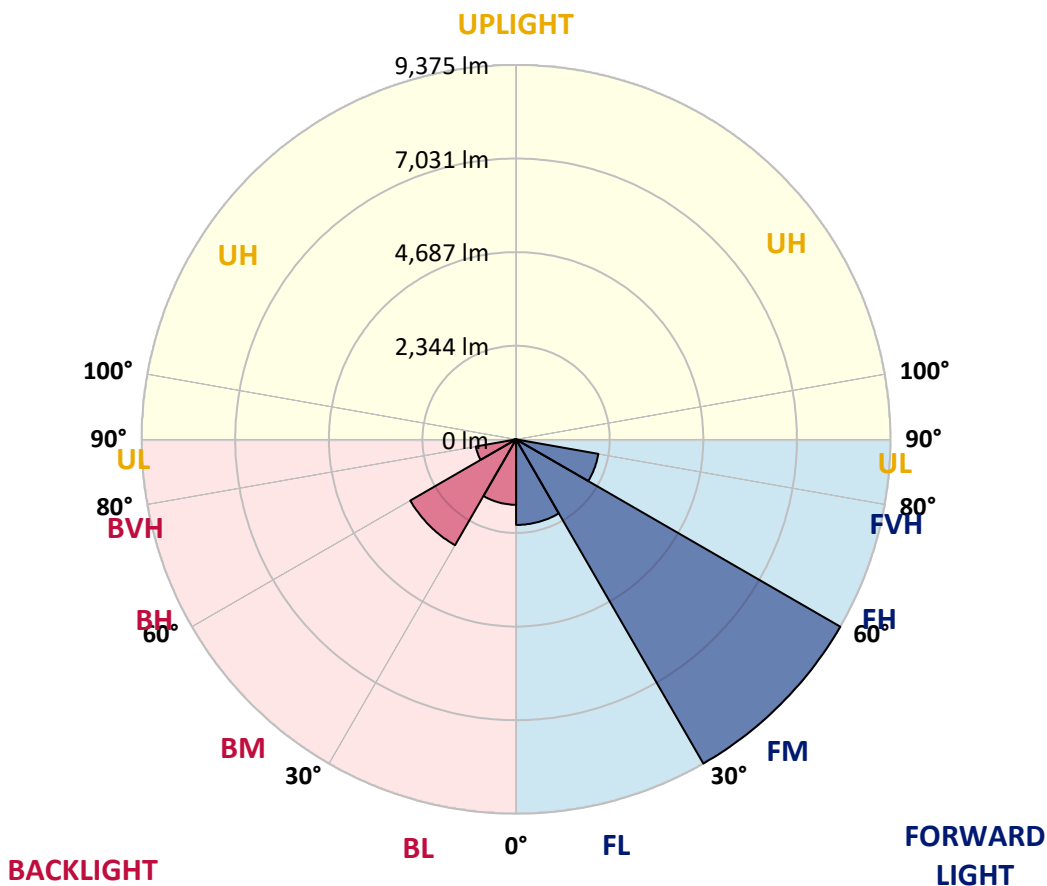
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.2	11.0			
FM (30°-60°)	9374.8	48.3			
FH (60°-80°)	2091.8	10.8			G2/5000
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	1637.7	8.4	B3/2500		
BM (30°-60°)	3059.9	15.8	B3/5000		
BH (60°-80°)	1023.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	46.1	0.2			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9
2.5°	4589.0	4579.5	4582.6	4595.3	4642.9	4677.8	4714.3	4747.6	4779.3	4788.8	4796.8
5°	4425.6	4408.1	4412.9	4433.5	4489.0	4547.7	4612.8	4692.1	4768.2	4793.6	4826.9
7.5°	4309.8	4306.6	4314.5	4346.3	4405.0	4460.5	4544.6	4657.2	4788.8	4831.7	4890.4
10°	4155.9	4149.6	4181.3	4246.3	4343.1	4431.9	4531.9	4665.1	4849.1	4912.6	5003.0
12.5°	4033.8	4030.6	4063.9	4154.3	4278.1	4419.2	4557.2	4706.3	4930.0	5017.3	5128.3
15°	4105.2	4090.9	4092.5	4155.9	4267.0	4433.5	4620.7	4780.9	5010.9	5121.9	5264.7
17.5°	4313.0	4287.6	4268.5	4279.7	4343.1	4516.0	4717.5	4880.8	5104.5	5234.6	5409.0
20°	4600.1	4585.8	4533.4	4498.6	4512.8	4665.1	4869.7	5022.0	5226.6	5372.6	5559.7
22.5°	4985.5	4950.6	4879.2	4823.7	4780.9	4899.9	5088.6	5220.3	5396.4	5548.6	5743.7
25°	5463.0	5412.2	5299.6	5212.4	5120.4	5242.5	5410.6	5510.6	5629.5	5770.7	5956.3
27.5°	5950.0	5907.1	5781.8	5664.4	5550.2	5626.4	5826.2	5883.3	5870.6	5973.7	6132.4
30°	6468.7	6414.7	6295.8	6168.9	6021.3	6070.5	6249.8	6278.3	6143.5	6229.1	6337.0
32.5°	7015.9	6963.6	6860.5	6712.9	6546.4	6565.4	6614.6	6641.6	6513.1	6562.2	6644.7
35°	7572.7	7523.5	7418.8	7272.9	7150.7	7034.9	6911.2	7019.1	6944.5	7039.7	7033.4
37.5°	8081.8	8032.7	7967.6	7855.0	7645.6	7417.2	7131.7	7264.9	7380.7	7501.3	7480.7
40°	8426.1	8392.8	8408.6	8391.2	8121.5	7669.4	7239.6	7385.5	7701.2	7907.4	7896.3
42.5°	8722.7	8689.4	8781.4	8848.0	8530.8	7902.6	7291.9	7431.5	7905.8	8227.8	8211.9
45°	8854.3	8844.8	8997.1	9208.1	8905.1	8150.1	7426.7	7526.7	8061.2	8473.6	8413.4
47.5°	8697.3	8730.6	9030.4	9387.3	9216.0	8443.5	7702.7	7728.1	8264.3	8740.1	8570.4
50°	8384.8	8457.8	8862.3	9392.1	9442.8	8775.0	8085.0	8021.6	8537.1	9024.1	8652.9
52.5°	7929.6	8005.7	8665.6	9355.6	9572.9	9158.9	8594.2	8503.8	8881.3	9308.0	8667.2
55°	6884.2	6987.3	8215.1	9273.1	9699.8	9507.9	9168.4	8984.4	9325.5	9698.2	8808.3
57.5°	5972.2	6026.1	7117.4	8906.7	9725.2	9764.8	9577.7	9358.8	9766.4	10120.2	8967.0
60°	4382.8	4395.4	5377.3	7369.6	8946.3	9615.7	9544.4	9219.2	9557.0	9782.3	8240.5
62.5°	2476.1	2477.7	3261.3	4918.9	6682.8	7837.6	7882.0	7594.9	7310.9	7377.6	5735.8
65°	929.5	1016.8	1489.5	2417.4	3853.0	4627.0	4811.0	4877.7	4405.0	4111.5	3075.7
67.5°	621.8	642.4	869.3	1243.6	1714.7	1979.6	2214.4	2220.7	1624.3	1448.2	1211.9
70°	474.3	494.9	683.7	889.9	869.3	802.6	867.7	843.9	872.4	896.2	921.6
72.5°	353.7	374.4	529.8	628.1	521.9	513.9	582.1	647.2	707.5	732.8	772.5
75°	234.8	250.6	356.9	336.3	288.7	341.0	425.1	490.1	525.0	555.2	585.3
77.5°	149.1	160.2	190.3	153.9	160.2	199.9	247.5	306.1	339.5	369.6	385.5
80°	68.2	66.6	65.0	73.0	90.4	117.4	149.1	184.0	209.4	222.1	231.6
82.5°	27.0	30.1	33.3	39.7	49.2	63.4	84.1	107.9	128.5	131.7	139.6
85°	11.1	12.7	14.3	17.4	22.2	28.6	34.9	49.2	61.9	66.6	71.4
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	4.8	7.9	14.3	15.9	17.4
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°	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9	4807.9
2.5°	4839.6	4819.0	4853.9	4877.7	4899.9	4876.1	4868.1	4847.5	4844.4	4844.4	4855.5
5°	4884.0	4869.7	4906.2	4920.5	4918.9	4866.6	4834.8	4793.6	4773.0	4773.0	4776.1
7.5°	4963.3	4955.4	4976.0	4953.8	4903.0	4796.8	4692.1	4604.8	4546.1	4516.0	4525.5
10°	5095.0	5085.5	5068.0	4985.5	4839.6	4619.1	4405.0	4246.3	4151.2	4097.2	4100.4
12.5°	5223.5	5207.6	5145.7	4963.3	4663.5	4313.0	4032.2	3854.5	3749.9	3686.4	3672.1
15°	5364.6	5323.4	5190.1	4849.1	4376.4	3938.6	3645.2	3453.2	3340.6	3302.5	3300.9
17.5°	5499.5	5426.5	5185.4	4646.1	4032.2	3546.8	3251.8	3132.8	3113.8	3131.2	3136.0
20°	5635.9	5518.5	5133.0	4365.3	3623.0	3156.6	3004.3	3053.5	3124.9	3172.5	3183.6
22.5°	5777.1	5594.6	5014.1	4003.6	3191.5	2893.3	2956.7	3064.6	3153.4	3216.9	3223.2
25°	5935.7	5666.0	4836.4	3561.1	2845.7	2820.3	2945.6	3059.8	3155.0	3228.0	3240.7
27.5°	6026.1	5667.6	4587.4	3105.8	2687.1	2791.8	2918.7	3026.5	3121.7	3201.0	3215.3
30°	6114.9	5624.8	4192.4	2736.2	2641.1	2758.5	2872.7	2972.6	3063.0	3140.7	3158.2
32.5°	6240.2	5585.1	3737.2	2523.7	2614.1	2726.7	2820.3	2909.1	2978.9	3013.8	3023.4
35°	6395.7	5534.4	3253.4	2431.7	2596.7	2701.4	2783.8	2831.4	2741.0	2722.0	2742.6
37.5°	6613.0	5486.8	2771.1	2392.0	2585.6	2691.8	2764.8	2642.7	2531.6	2487.2	2503.1
40°	6847.8	5459.8	2444.4	2360.3	2590.3	2701.4	2685.5	2504.7	2344.5	2250.9	2247.7
42.5°	7047.6	5418.6	2235.0	2339.7	2603.0	2737.8	2577.6	2382.5	2144.6	2089.1	2090.7
45°	7182.5	5313.9	2124.0	2317.5	2614.1	2745.8	2526.9	2214.4	2044.7	2009.8	2008.2
47.5°	7238.0	5123.5	2052.6	2282.6	2612.5	2680.7	2423.8	2144.6	1974.9	1965.3	1971.7
50°	7201.5	4811.0	1979.6	2214.4	2574.5	2612.5	2304.8	2082.7	1927.3	1979.6	2017.7
52.5°	7066.7	4406.6	1892.4	2120.8	2506.2	2534.8	2244.5	2044.7	1892.4	1962.2	1992.3
55°	7031.8	4078.2	1781.3	1998.7	2404.7	2396.8	2181.1	2025.6	1868.6	1841.6	1846.4
57.5°	6985.8	3757.8	1597.3	1779.8	2147.8	2160.4	2120.8	2003.4	1806.7	1798.8	1806.7
60°	6068.9	2880.6	1424.4	1535.5	1763.9	1832.1	2052.6	1962.2	1706.8	1673.5	1671.9
62.5°	3964.0	1744.9	1267.4	1338.8	1437.1	1516.4	1871.8	1843.2	1597.3	1576.7	1591.0
65°	2131.9	1243.6	1153.2	1196.0	1250.0	1310.2	1551.3	1641.7	1443.5	1370.5	1372.1
67.5°	1089.7	1058.0	1067.5	1097.7	1138.9	1169.1	1251.5	1330.8	1230.9	1169.1	1167.5
70°	932.7	958.1	972.4	989.8	1016.8	1012.0	1019.9	1034.2	1026.3	996.2	994.6
72.5°	794.7	834.4	837.5	840.7	850.2	828.0	813.7	789.9	791.5	796.3	797.9
75°	604.4	642.4	651.9	647.2	656.7	628.1	609.1	585.3	556.8	552.0	555.2
77.5°	393.4	423.5	437.8	434.6	439.4	417.2	407.7	382.3	349.0	336.3	336.3
80°	237.9	255.4	266.5	269.7	274.4	258.6	242.7	220.5	206.2	191.9	191.9
82.5°	144.3	155.5	163.4	163.4	168.1	150.7	138.0	122.1	115.8	103.1	103.1
85°	73.0	80.9	84.1	82.5	79.3	65.0	60.3	52.3	49.2	42.8	42.8
87.5°	17.4	22.2	22.2	15.9	15.9	7.9	4.8	1.6	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)