

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: P641018

Luminaire Tested: GWS-SA5F-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18262.1 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

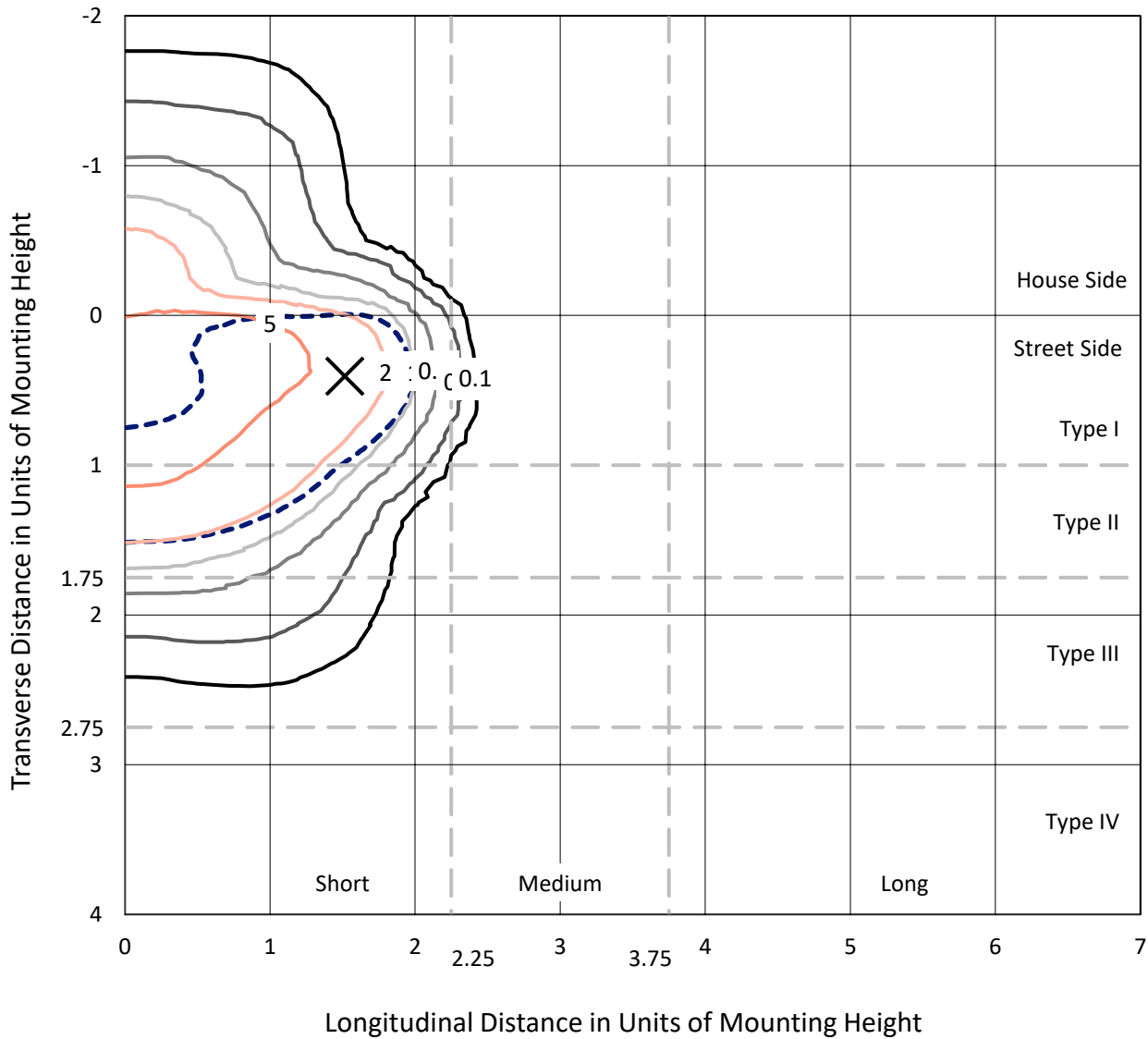
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

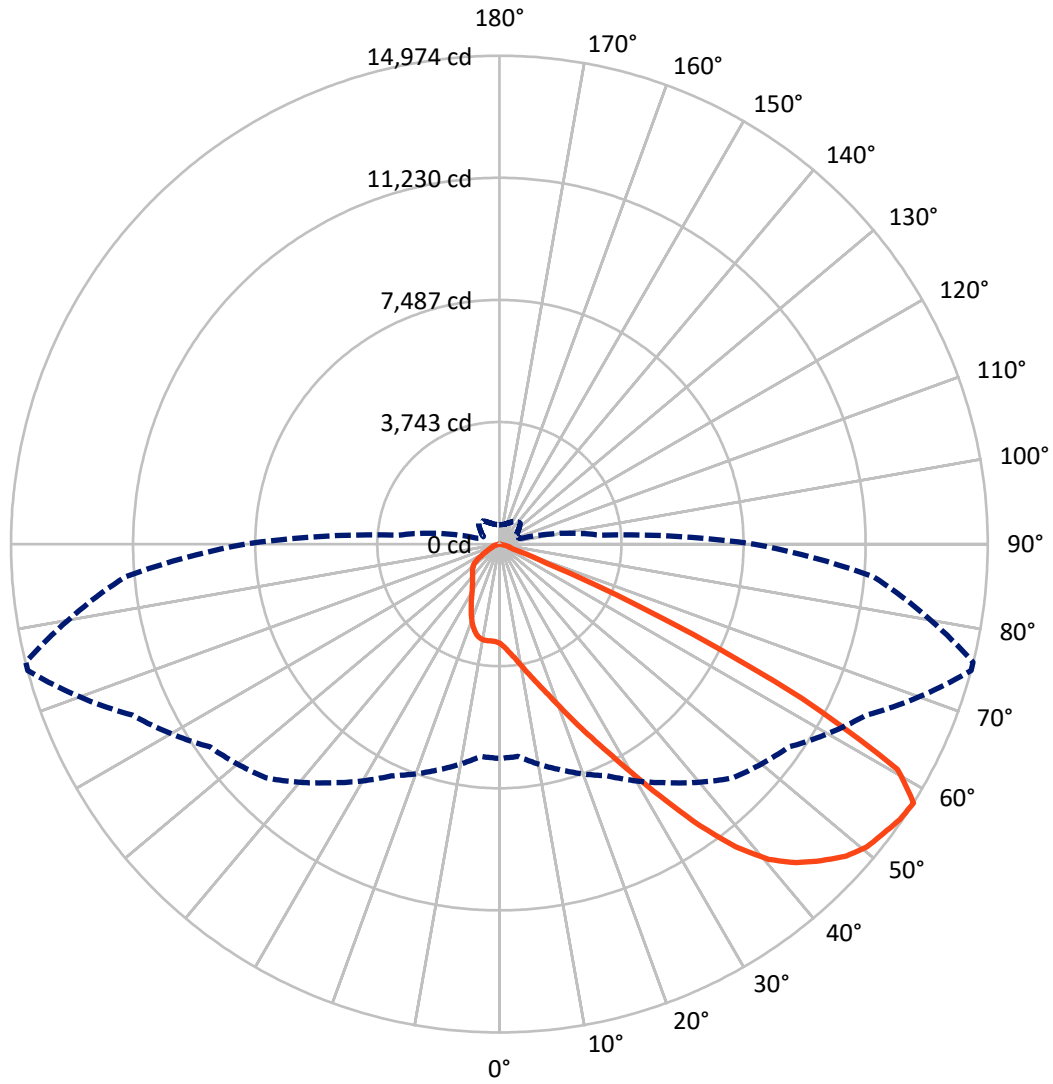
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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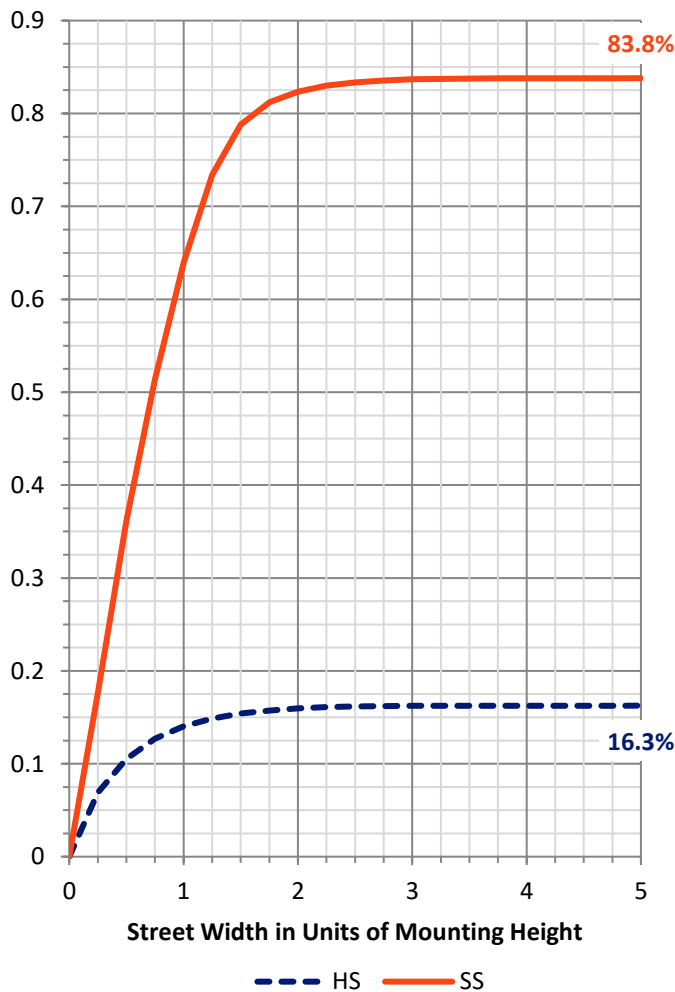
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2983.1	0.0	2983.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	15279.0	0.0	15279.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	18262.1	0.0	18262.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	1.7
10°-20°	1006.8	5.5
20°-30°	1843.7	10.1
30°-40°	3058.9	16.8
40°-50°	4671.7	25.6
50°-60°	5249.5	28.7
60°-70°	1936.2	10.6
70°-80°	185.1	1.0
80°-90°	0.1	0.0
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°	18262.1	100.0
0°-180°	18262.1	100.0

Coefficient of Utilization



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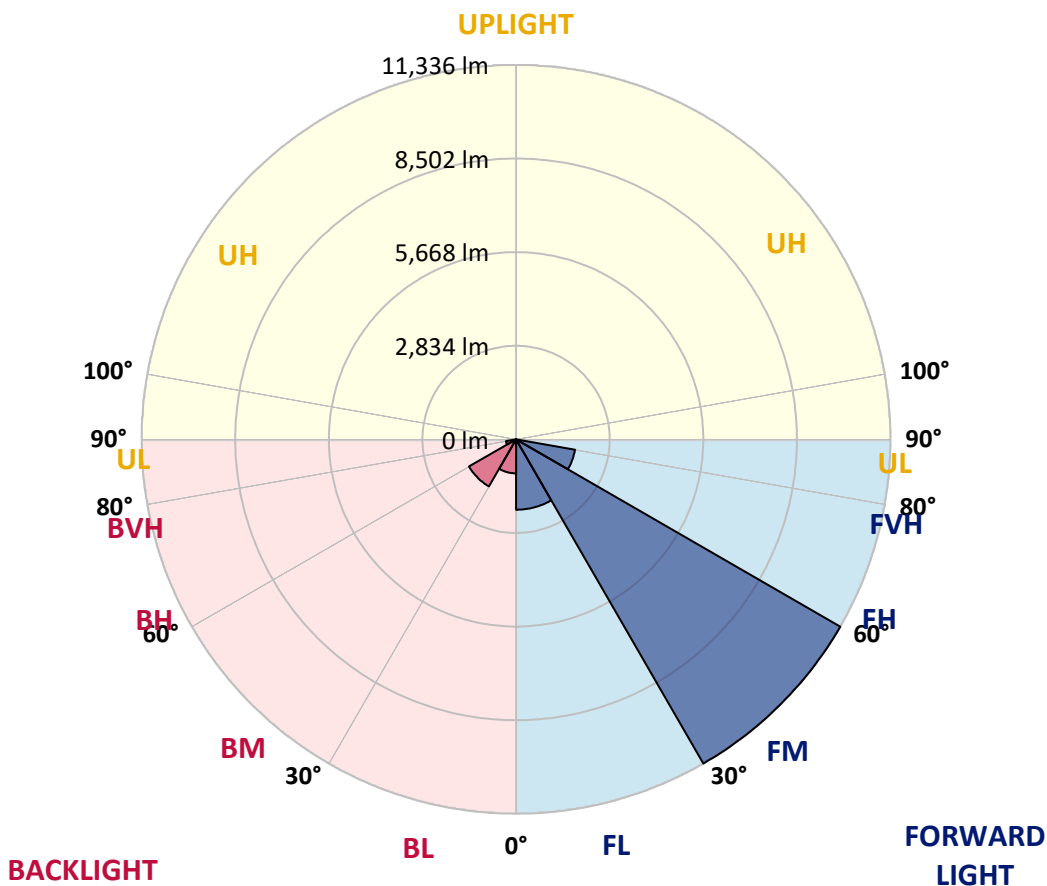
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.2	11.7			
FM (30°-60°)	11336.3	62.1			
FH (60°-80°)	1811.5	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1029.4	5.6	B3/2500		
BM (30°-60°)	1643.9	9.0	B2/2500		
BH (60°-80°)	309.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9
2.5°	3402.9	3438.2	3427.1	3405.1	3391.9	3345.6	3317.0	3233.2	3173.7	3167.1	3112.0
5°	3832.7	3826.1	3817.2	3790.8	3768.8	3696.0	3610.1	3469.0	3343.4	3328.0	3211.2
7.5°	4068.5	4072.9	4077.3	4072.9	4057.5	4002.4	3907.6	3742.3	3550.6	3537.3	3352.2
10°	4165.5	4174.3	4196.3	4238.2	4275.7	4271.3	4216.2	4046.5	3810.6	3788.6	3539.5
12.5°	4211.8	4222.8	4258.0	4337.4	4438.8	4518.1	4526.9	4374.8	4114.8	4079.5	3762.1
15°	4275.7	4286.7	4330.8	4434.4	4582.0	4738.5	4839.9	4742.9	4452.0	4414.5	4006.8
17.5°	4304.3	4319.7	4383.7	4520.3	4712.1	4952.3	5181.5	5172.7	4850.9	4822.3	4291.1
20°	4359.4	4370.4	4427.7	4575.4	4806.8	5152.8	5538.5	5677.4	5338.0	5296.1	4634.9
22.5°	4533.5	4537.9	4564.4	4657.0	4872.9	5298.3	5902.2	6265.8	5913.2	5858.1	5020.6
25°	4817.8	4815.6	4826.7	4842.1	5000.8	5446.0	6252.6	6929.2	6572.2	6512.7	5457.0
27.5°	5179.3	5179.3	5205.7	5161.7	5225.6	5628.9	6598.6	7691.8	7339.2	7255.4	5935.2
30°	5604.7	5602.5	5664.2	5593.6	5613.5	5917.6	6971.1	8522.7	8264.8	8161.2	6486.2
32.5°	6182.1	6168.9	6239.4	6142.4	6076.3	6354.0	7425.1	9391.0	9373.4	9214.7	7178.3
35°	6911.6	6889.6	6911.6	6816.8	6697.8	6964.5	8020.2	10257.2	10603.2	10435.7	8002.6
37.5°	7636.7	7707.2	7731.5	7568.4	7471.4	7738.1	8736.5	11033.0	11777.9	11603.8	8859.9
40°	8491.8	8469.8	8553.5	8370.6	8308.9	8604.2	9437.3	11610.4	12708.0	12542.7	9622.5
42.5°	9122.2	9161.8	9265.4	9164.0	9115.6	9393.3	10025.8	11947.6	13353.8	13190.7	10166.8
45°	9878.1	9906.8	9946.4	9862.7	9812.0	10085.3	10451.1	12095.3	13845.2	13668.9	10532.7
47.5°	10695.8	10717.8	10717.8	10545.9	10382.8	10495.2	10735.5	12179.0	14297.0	14127.3	10803.8
50°	11282.0	11293.1	11390.0	11268.8	10914.0	10739.9	10865.5	12260.6	14596.8	14438.1	10891.9
52.5°	10761.9	10748.7	11068.3	11319.5	11414.3	11068.3	11090.3	12379.6	14742.2	14605.6	10962.5
55°	9062.7	9040.6	9490.2	10100.7	10936.0	11379.0	11361.4	12450.1	14903.1	14819.4	11218.1
57.5°	6570.0	6532.5	7158.4	7837.3	8932.6	10133.8	10839.0	12410.5	14973.7	14967.0	11515.7
60°	3949.5	3918.6	4509.3	5223.4	6069.7	7277.5	8447.8	11116.7	14030.4	14043.6	10742.1
62.5°	2431.0	2459.6	2993.0	3356.6	3671.8	4035.4	4712.1	7478.0	10393.8	10479.8	7548.5
65°	1635.3	1657.4	2151.1	2609.5	2609.5	2133.4	1831.5	3574.8	5545.1	5399.7	3570.4
67.5°	1097.6	1121.8	1511.9	2047.5	2124.6	1487.7	742.7	1066.7	1545.0	1498.7	883.8
70°	645.8	672.2	1007.2	1403.9	1547.2	1035.9	495.9	451.8	438.6	425.4	343.8
72.5°	288.7	299.7	513.5	714.1	652.4	436.4	350.4	361.4	341.6	335.0	279.9
75°	88.2	92.6	132.2	154.3	156.5	156.5	211.6	284.3	268.9	271.1	216.0
77.5°	22.0	22.0	35.3	33.1	17.6	15.4	39.7	63.9	66.1	59.5	44.1
80°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9	3045.9
2.5°	3087.7	3030.4	2993.0	2940.1	2902.6	2862.9	2827.7	2799.0	2783.6	2779.2	2781.4
5°	3158.3	3067.9	2979.7	2878.4	2807.8	2741.7	2688.8	2646.9	2627.1	2620.5	2620.5
7.5°	3266.3	3140.6	2984.2	2825.5	2706.5	2602.9	2541.2	2494.9	2477.2	2472.8	2459.6
10°	3407.3	3235.4	2977.5	2730.7	2563.2	2455.2	2411.1	2397.9	2404.5	2406.7	2404.5
12.5°	3577.0	3334.6	2935.7	2591.8	2411.1	2345.0	2349.4	2384.7	2424.3	2444.2	2448.6
15°	3757.7	3424.9	2840.9	2426.6	2281.1	2278.9	2342.8	2424.3	2501.5	2534.5	2543.4
17.5°	3960.5	3497.7	2695.4	2250.2	2168.7	2232.6	2347.2	2472.8	2576.4	2631.5	2642.5
20°	4183.1	3557.2	2510.3	2084.9	2069.5	2184.1	2342.8	2497.1	2624.9	2686.6	2697.6
22.5°	4414.5	3599.1	2296.5	1932.9	1979.2	2129.0	2300.9	2450.8	2572.0	2642.5	2651.4
25°	4679.0	3603.5	2078.3	1805.0	1895.4	2054.1	2199.5	2323.0	2424.3	2486.1	2492.7
27.5°	4910.4	3550.6	1884.4	1701.5	1818.3	1961.5	2058.5	2126.8	2197.3	2232.6	2234.8
30°	5177.1	3458.0	1701.5	1617.7	1738.9	1846.9	1895.4	1910.8	1917.4	1924.1	1915.2
32.5°	5494.5	3345.6	1564.8	1536.2	1648.6	1721.3	1734.5	1703.7	1666.2	1613.3	1600.1
35°	5884.6	3244.2	1452.4	1456.8	1549.4	1593.5	1582.4	1516.3	1443.6	1379.7	1368.7
37.5°	6307.7	3158.3	1366.5	1379.7	1441.4	1472.2	1439.2	1366.5	1333.4	1278.3	1280.5
40°	6682.4	3087.7	1289.3	1302.5	1331.2	1359.8	1306.9	1258.5	1320.2	1315.8	1320.2
42.5°	6949.1	3028.2	1223.2	1216.6	1236.4	1256.3	1216.6	1192.3	1295.9	1267.3	1282.7
45°	7105.5	2973.1	1168.1	1128.4	1159.3	1194.5	1168.1	1137.2	1172.5	1040.3	1029.2
47.5°	7211.3	2942.3	1119.6	1042.5	1097.6	1159.3	1104.2	1029.2	978.6	863.9	855.1
50°	7222.4	2926.9	1062.3	954.3	1024.8	1091.0	1027.0	923.5	850.7	800.0	793.4
52.5°	7279.7	2957.7	983.0	841.9	919.0	1024.8	980.8	877.2	778.0	733.9	725.1
55°	7535.3	3087.7	850.7	687.6	800.0	974.1	943.3	782.4	687.6	661.2	654.6
57.5°	7799.8	3114.2	670.0	544.4	696.4	901.4	861.7	720.7	628.1	597.3	590.7
60°	7132.0	2565.4	502.5	449.6	614.9	833.1	797.8	683.2	575.2	537.8	531.2
62.5°	4685.6	1386.3	398.9	381.3	517.9	705.3	727.3	617.1	513.5	473.9	471.6
65°	2159.9	643.6	306.3	301.9	405.5	562.0	625.9	540.0	434.2	398.9	398.9
67.5°	588.5	319.6	240.2	222.6	275.5	376.9	456.2	403.3	308.6	266.7	264.5
70°	293.1	257.9	216.0	191.7	198.4	233.6	268.9	224.8	156.5	127.8	125.6
72.5°	240.2	211.6	182.9	163.1	149.9	143.3	138.8	112.4	72.7	55.1	52.9
75°	178.5	152.1	130.0	105.8	90.4	83.8	74.9	55.1	30.9	17.6	15.4
77.5°	39.7	37.5	35.3	26.4	24.2	19.8	15.4	11.0	4.4	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)