

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: P640138

Luminaire Tested: GWS-SA5D-730-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640138
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-SA5D-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16249.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

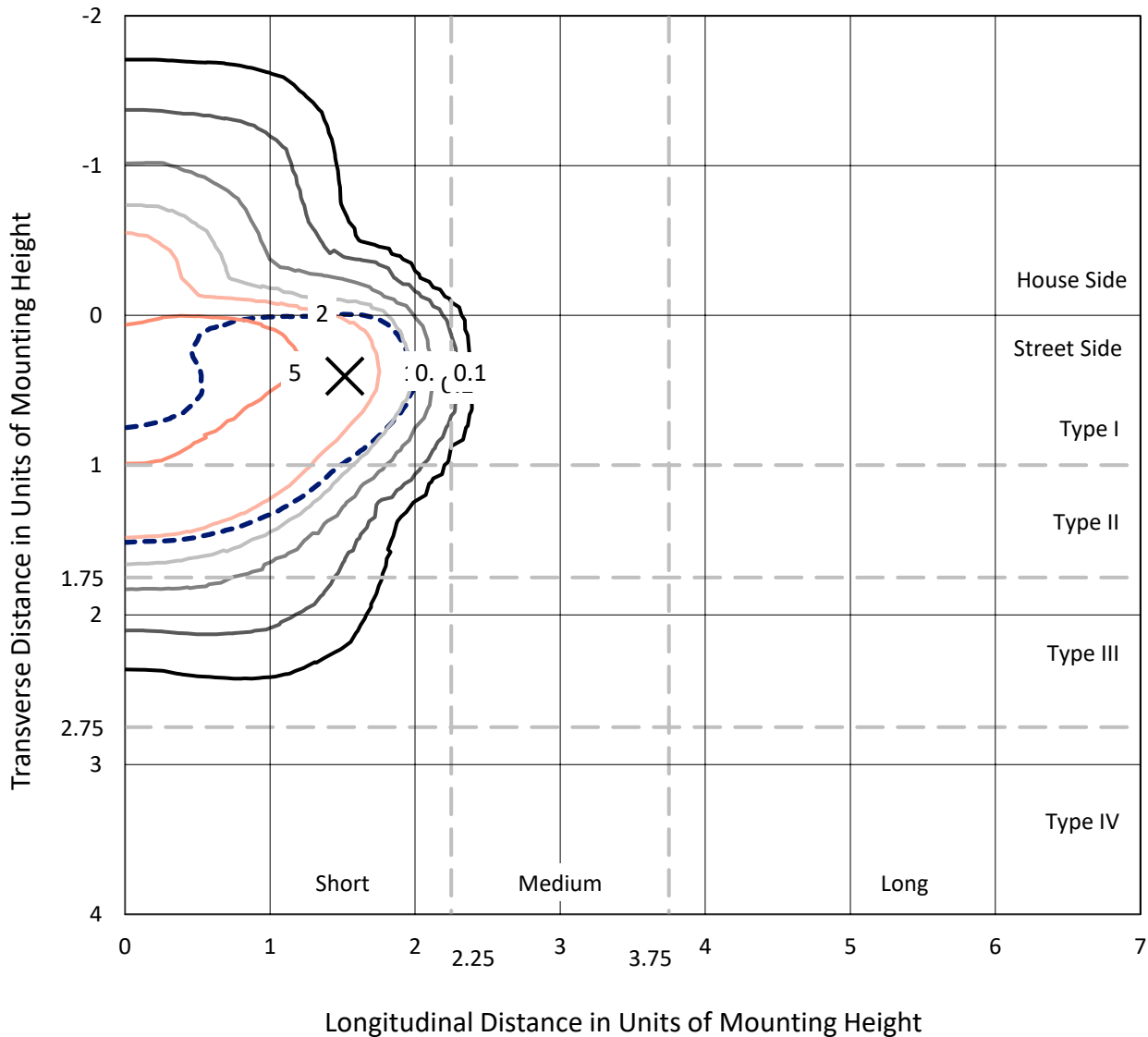
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

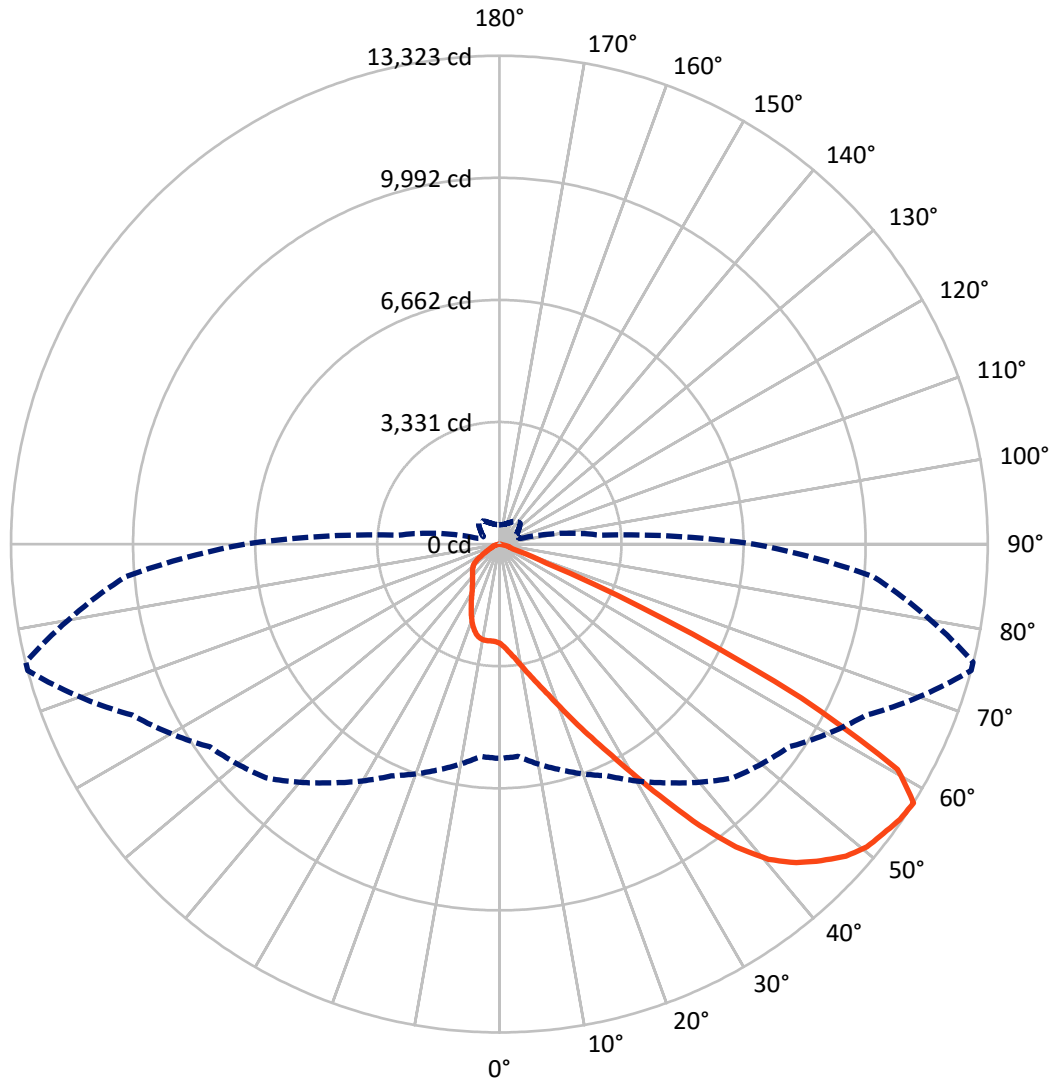
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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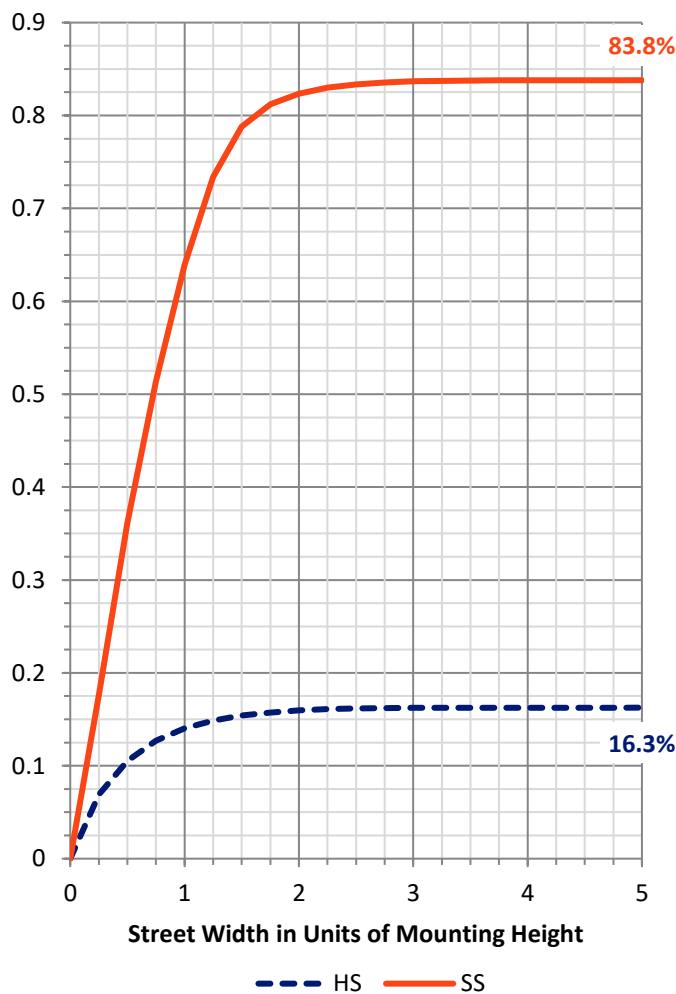
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2654.3	0.0	2654.3
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	13595.0	0.0	13595.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	16249.3	0.0	16249.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.7
10°-20°	895.9	5.5
20°-30°	1640.5	10.1
30°-40°	2721.8	16.8
40°-50°	4156.8	25.6
50°-60°	4670.9	28.7
60°-70°	1722.8	10.6
70°-80°	164.7	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°	16249.3	100.0
0°-180°	16249.3	100.0

Coefficient of Utilization

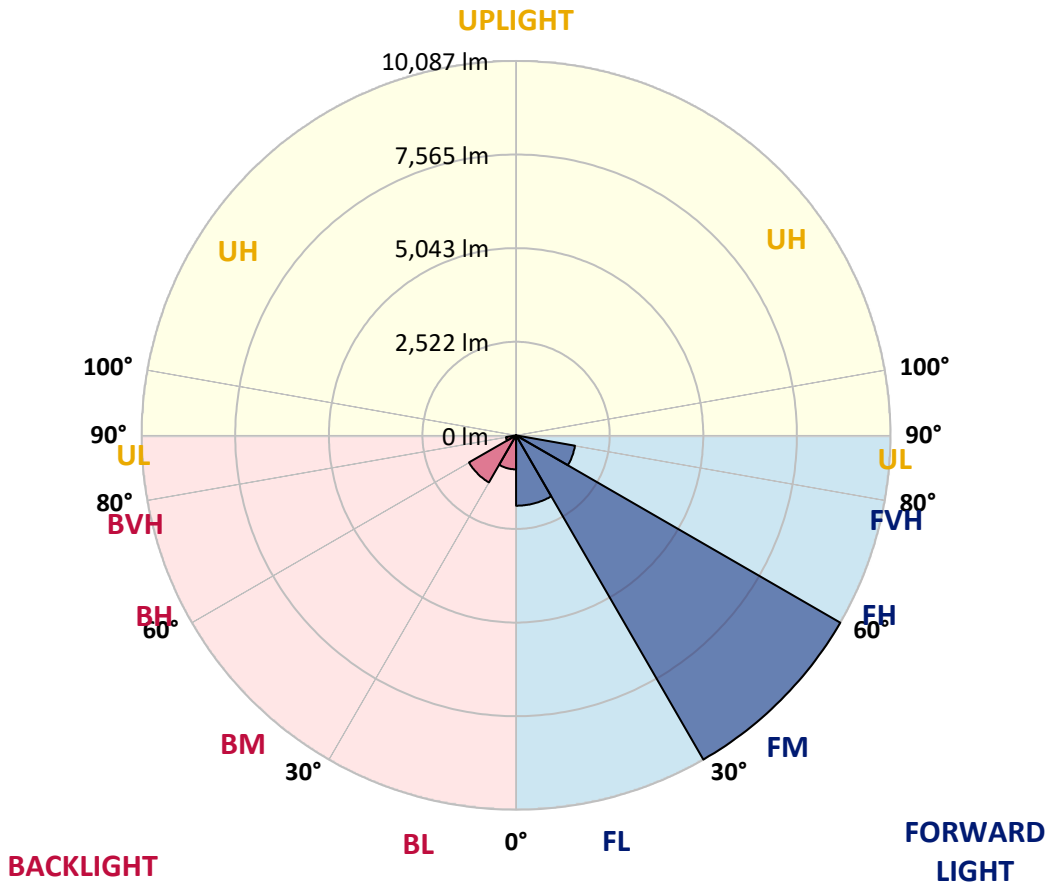


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1896.3	11.7			
FM (30°-60°)	10086.8	62.1			
FH (60°-80°)	1611.9	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	915.9	5.6	B2/1000		
BM (30°-60°)	1462.7	9.0	B2/2500		
BH (60°-80°)	275.6	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: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2
2.5°	3027.8	3059.2	3049.4	3029.8	3018.0	2976.9	2951.4	2876.8	2823.9	2818.0	2769.0
5°	3410.2	3404.4	3396.5	3373.0	3353.4	3288.7	3212.2	3086.7	2974.9	2961.2	2857.2
7.5°	3620.1	3624.0	3627.9	3624.0	3610.3	3561.2	3476.9	3329.8	3159.2	3147.5	2982.7
10°	3706.4	3714.2	3733.8	3771.1	3804.4	3800.5	3751.5	3600.5	3390.6	3371.0	3149.4
12.5°	3747.5	3757.4	3788.7	3859.3	3949.5	4020.1	4028.0	3892.7	3661.3	3629.9	3347.5
15°	3804.4	3814.2	3853.4	3945.6	4077.0	4216.2	4306.4	4220.2	3961.3	3928.0	3565.2
17.5°	3829.9	3843.6	3900.5	4022.1	4192.7	4406.5	4610.4	4602.6	4316.2	4290.8	3818.1
20°	3878.9	3888.7	3939.7	4071.1	4277.0	4584.9	4928.1	5051.6	4749.6	4712.4	4124.1
22.5°	4033.9	4037.8	4061.3	4143.7	4335.9	4714.3	5251.7	5575.2	5261.5	5212.4	4467.2
25°	4286.8	4284.9	4294.7	4308.4	4449.6	4845.7	5563.5	6165.5	5847.8	5794.9	4855.5
27.5°	4608.4	4608.4	4632.0	4592.8	4649.6	5008.5	5871.4	6844.0	6530.3	6455.7	5281.1
30°	4986.9	4985.0	5039.9	4977.1	4994.8	5265.4	6202.8	7583.3	7353.9	7261.7	5771.3
32.5°	5500.7	5489.0	5551.7	5465.4	5406.6	5653.7	6606.7	8356.0	8340.3	8199.1	6387.1
35°	6149.8	6130.2	6149.8	6065.5	5959.6	6196.9	7136.2	9126.7	9434.6	9285.5	7120.5
37.5°	6795.0	6857.8	6879.3	6734.2	6647.9	6885.2	7773.6	9817.0	10479.8	10324.9	7883.4
40°	7555.9	7536.3	7610.8	7448.0	7393.1	7655.9	8397.2	10330.8	11307.4	11160.3	8561.9
42.5°	8116.7	8152.0	8244.2	8154.0	8110.9	8358.0	8920.8	10630.8	11881.9	11736.8	9046.3
45°	8789.4	8814.9	8850.2	8775.7	8730.5	8973.7	9299.3	10762.2	12319.3	12162.4	9371.8
47.5°	9516.9	9536.5	9536.5	9383.6	9238.5	9338.5	9552.2	10836.7	12721.3	12570.3	9613.0
50°	10038.6	10048.4	10134.7	10026.8	9711.1	9556.1	9667.9	10909.3	12988.0	12846.8	9691.5
52.5°	9575.8	9564.0	9848.3	10071.9	10156.2	9848.3	9868.0	11015.2	13117.4	12995.8	9754.2
55°	8063.8	8044.2	8444.2	8987.4	9730.7	10124.8	10109.2	11077.9	13260.6	13186.0	9981.7
57.5°	5845.9	5812.5	6369.5	6973.5	7948.1	9016.9	9644.4	11042.6	13323.3	13317.4	10246.4
60°	3514.2	3486.7	4012.3	4647.7	5400.7	6475.4	7516.7	9891.5	12484.0	12495.7	9558.1
62.5°	2163.0	2188.5	2663.1	2986.7	3267.1	3590.7	4192.7	6653.8	9248.3	9324.7	6716.6
65°	1455.1	1474.7	1914.0	2321.9	2321.9	1898.3	1629.6	3180.8	4934.0	4804.5	3176.9
67.5°	976.6	998.2	1345.3	1821.8	1890.4	1323.7	660.9	949.1	1374.7	1333.5	786.4
70°	574.6	598.1	896.2	1249.2	1376.6	921.7	441.2	402.0	390.2	378.5	305.9
72.5°	256.9	266.7	456.9	635.4	580.5	388.3	311.8	321.6	304.0	298.1	249.1
75°	78.4	82.4	117.7	137.3	139.2	139.2	188.3	253.0	239.2	241.2	192.2
77.5°	19.6	19.6	31.4	29.4	15.7	13.7	35.3	56.9	58.8	52.9	39.2
80°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2	2710.2
2.5°	2747.4	2696.4	2663.1	2616.0	2582.7	2547.4	2516.0	2490.5	2476.8	2472.9	2474.8
5°	2810.2	2729.8	2651.3	2561.1	2498.4	2439.5	2392.5	2355.2	2337.6	2331.7	2331.7
7.5°	2906.3	2794.5	2655.2	2514.1	2408.2	2316.0	2261.1	2219.9	2204.2	2200.3	2188.5
10°	3031.8	2878.8	2649.4	2429.7	2280.7	2184.6	2145.4	2133.6	2139.5	2141.5	2139.5
12.5°	3182.8	2967.1	2612.1	2306.2	2145.4	2086.5	2090.5	2121.8	2157.1	2174.8	2178.7
15°	3343.6	3047.5	2527.8	2159.1	2029.7	2027.7	2084.6	2157.1	2225.8	2255.2	2263.0
17.5°	3524.0	3112.2	2398.4	2002.2	1929.7	1986.5	2088.5	2200.3	2292.5	2341.5	2351.3
20°	3722.1	3165.1	2233.6	1855.1	1841.4	1943.4	2084.6	2221.9	2335.6	2390.5	2400.3
22.5°	3928.0	3202.4	2043.4	1719.8	1761.0	1894.4	2047.3	2180.7	2288.5	2351.3	2359.1
25°	4163.3	3206.3	1849.3	1606.1	1686.5	1827.7	1957.1	2066.9	2157.1	2212.1	2217.9
27.5°	4369.2	3159.2	1676.7	1513.9	1617.9	1745.3	1831.6	1892.4	1955.2	1986.5	1988.5
30°	4606.5	3076.9	1513.9	1439.4	1547.3	1643.4	1686.5	1700.2	1706.1	1712.0	1704.1
32.5°	4888.9	2976.9	1392.3	1366.8	1466.9	1531.6	1543.3	1515.9	1482.5	1435.5	1423.7
35°	5236.0	2886.7	1292.3	1296.2	1378.6	1417.8	1408.0	1349.2	1284.5	1227.6	1217.8
37.5°	5612.5	2810.2	1215.8	1227.6	1282.5	1310.0	1280.6	1215.8	1186.4	1137.4	1139.4
40°	5945.9	2747.4	1147.2	1159.0	1184.5	1210.0	1162.9	1119.8	1174.7	1170.7	1174.7
42.5°	6183.2	2694.5	1088.4	1082.5	1100.1	1117.8	1082.5	1060.9	1153.1	1127.6	1141.3
45°	6322.4	2645.4	1039.4	1004.1	1031.5	1062.9	1039.4	1011.9	1043.3	925.6	915.8
47.5°	6416.5	2618.0	996.2	927.6	976.6	1031.5	982.5	915.8	870.7	768.7	760.9
50°	6426.3	2604.3	945.2	849.1	911.9	970.7	913.8	821.7	757.0	711.9	706.0
52.5°	6477.3	2631.7	874.6	749.1	817.8	911.9	872.7	780.5	692.2	653.0	645.2
55°	6704.8	2747.4	757.0	611.8	711.9	866.8	839.3	696.2	611.8	588.3	582.4
57.5°	6940.1	2770.9	596.2	484.4	619.7	802.1	766.8	641.3	558.9	531.4	525.6
60°	6345.9	2282.7	447.1	400.1	547.1	741.3	709.9	607.9	511.8	478.5	472.6
62.5°	4169.2	1233.5	354.9	339.3	460.8	627.5	647.1	549.1	456.9	421.6	419.7
65°	1921.8	572.6	272.6	268.7	360.8	500.1	556.9	480.5	386.3	354.9	354.9
67.5°	523.6	284.4	213.8	198.1	245.1	335.3	405.9	358.9	274.5	237.3	235.3
70°	260.8	229.4	192.2	170.6	176.5	207.9	239.2	200.0	139.2	113.7	111.8
72.5°	213.8	188.3	162.8	145.1	133.4	127.5	123.5	100.0	64.7	49.0	47.1
75°	158.8	135.3	115.7	94.1	80.4	74.5	66.7	49.0	27.5	15.7	13.7
77.5°	35.3	33.3	31.4	23.5	21.6	17.6	13.7	9.8	3.9	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	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)