

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: P640755

Luminaire Tested: GWS-SA5E-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23545.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

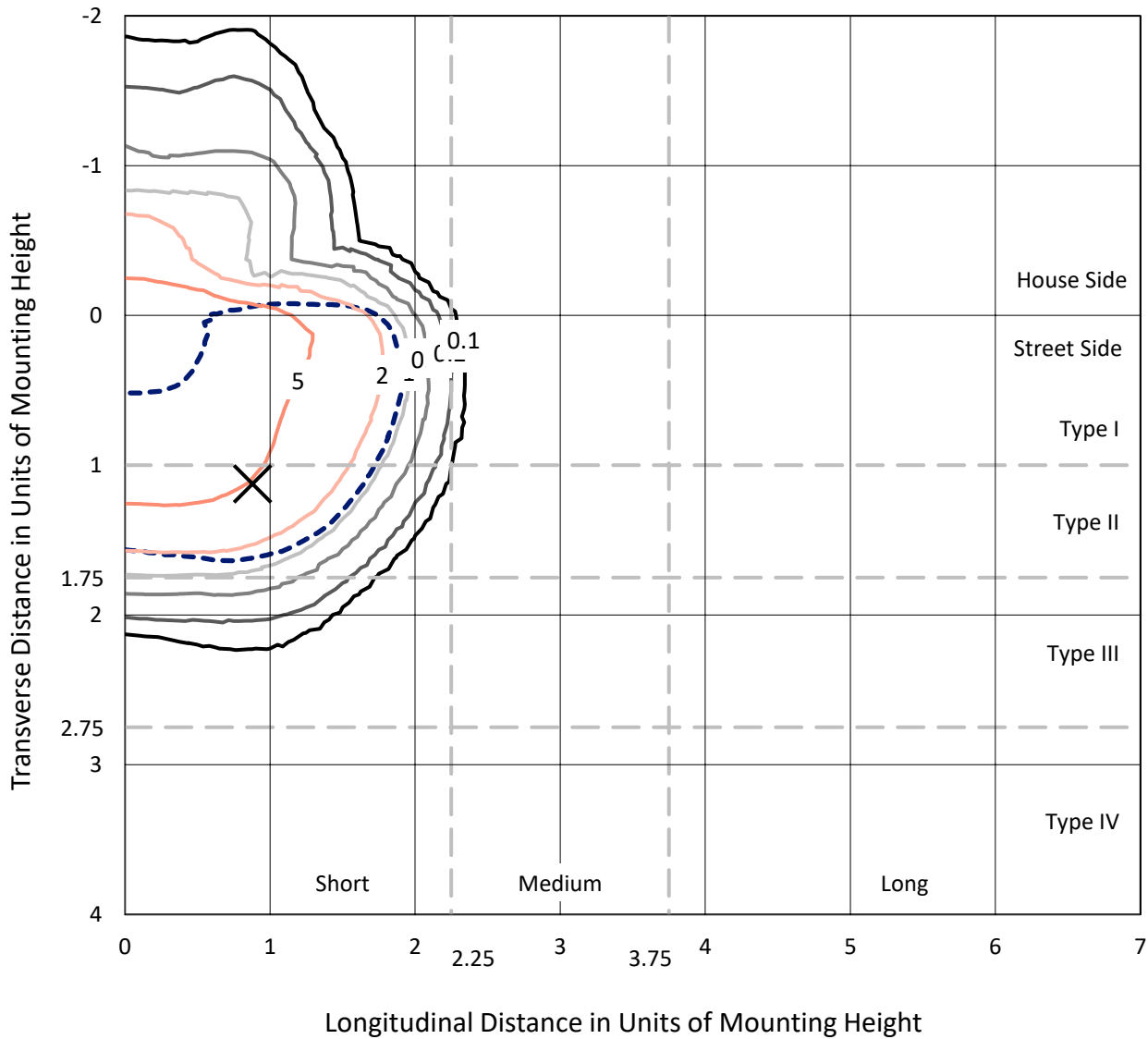
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

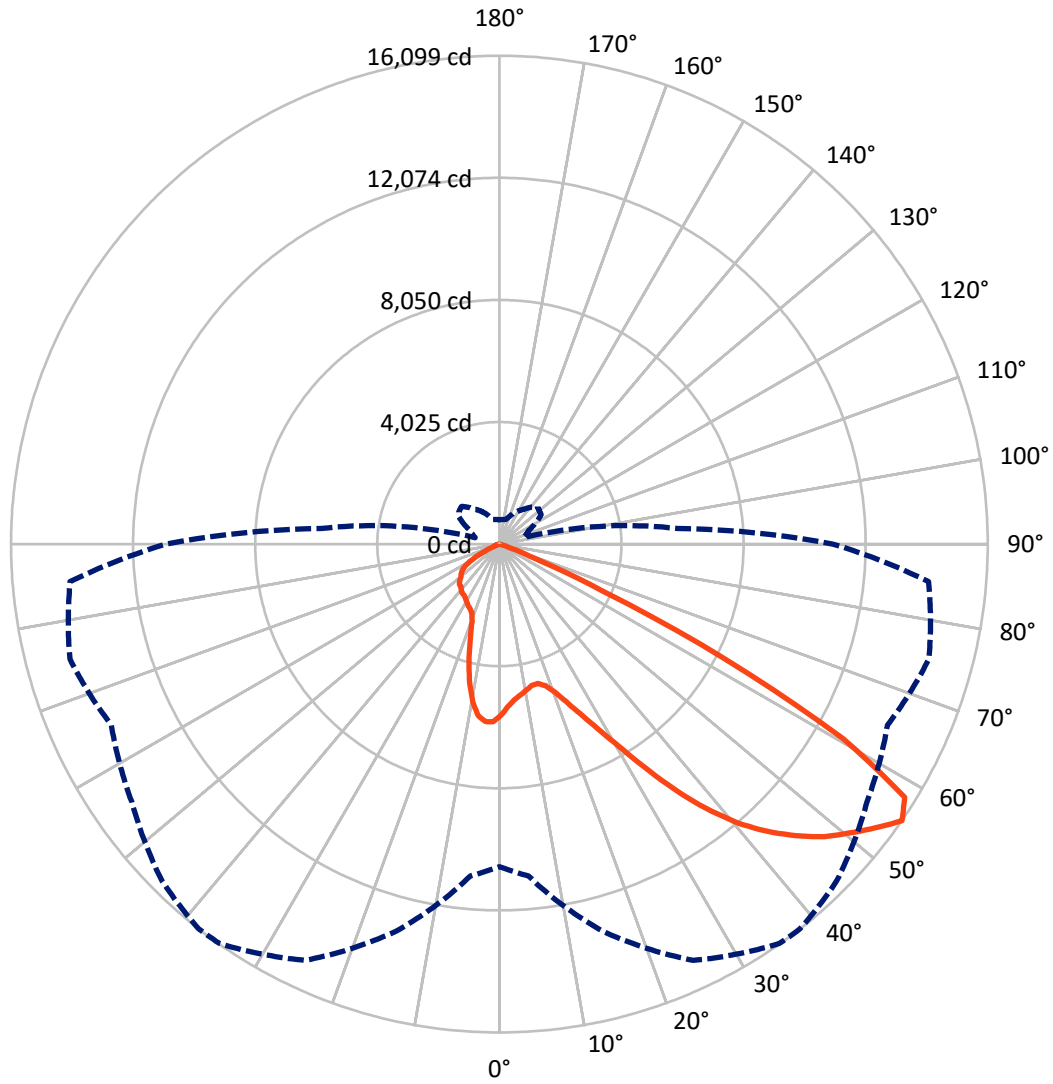
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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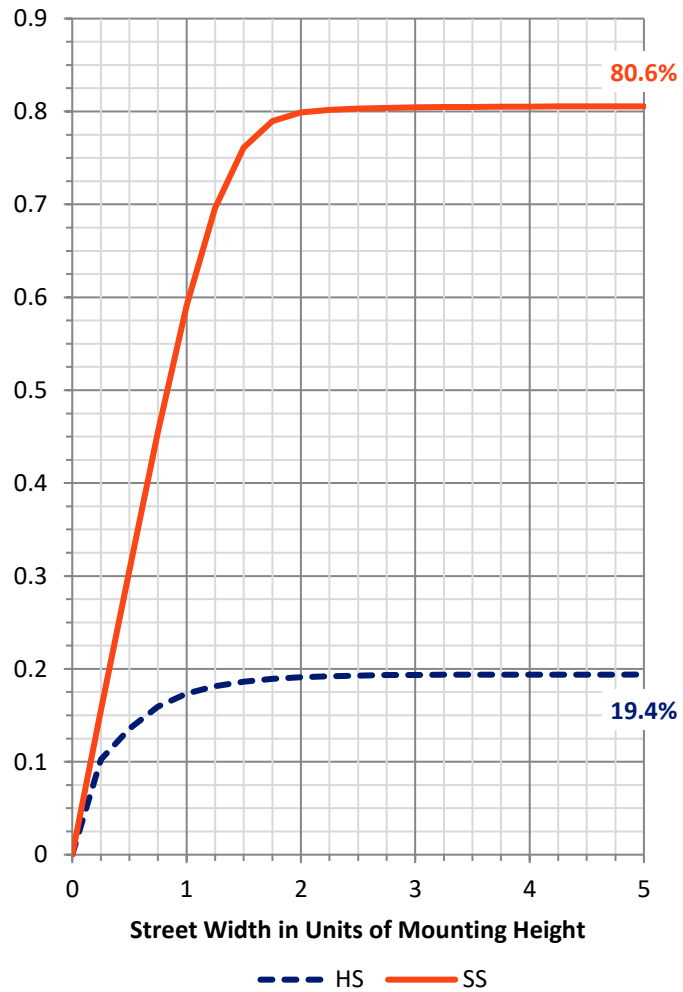
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4587.3	0.0	4587.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18957.8	0.0	18957.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	23545.1	0.0	23545.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.1	2.2
10°-20°	1405.5	6.0
20°-30°	2411.9	10.2
30°-40°	4000.3	17.0
40°-50°	5880.6	25.0
50°-60°	6871.7	29.2
60°-70°	2329.3	9.9
70°-80°	119.1	0.5
80°-90°	4.7	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°	23545.1	100.0
0°-180°	23545.1	100.0

Coefficient of Utilization



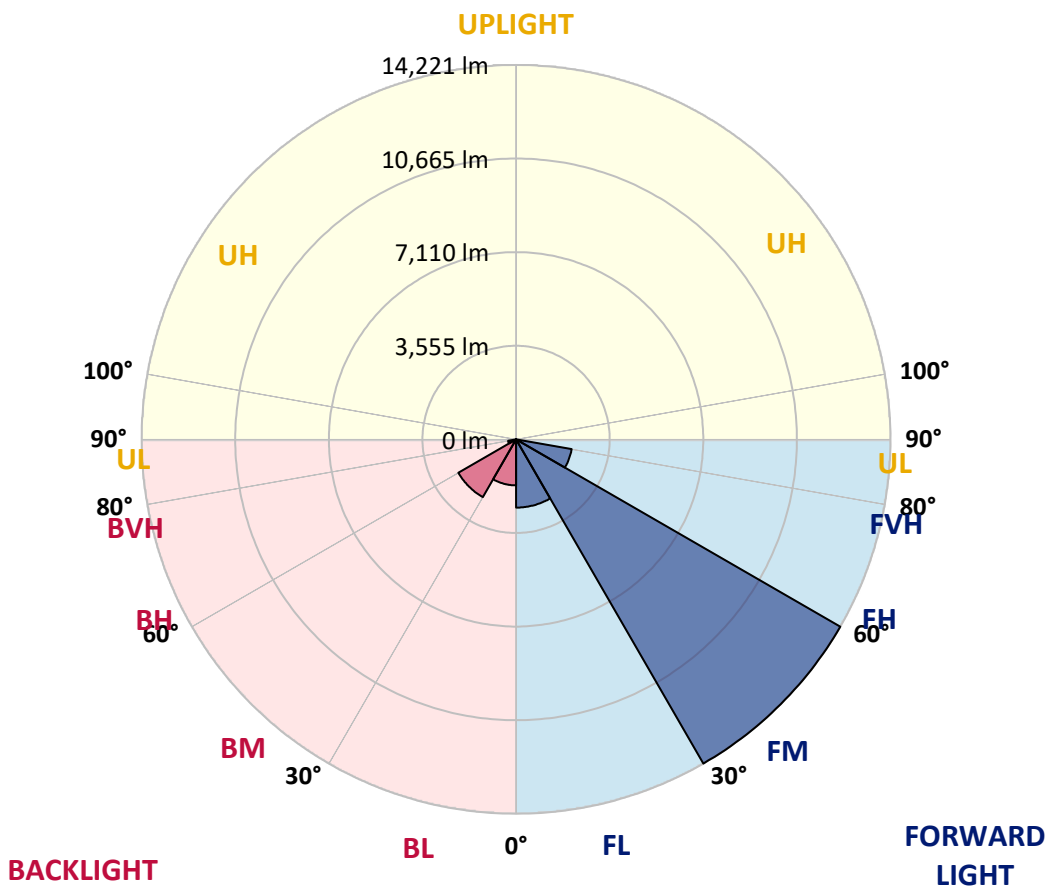
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2591.7	11.0			
FM (30°-60°)	14220.6	60.4			
FH (60°-80°)	2143.0	9.1			G2/5000
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1747.7	7.4	B3/2500		
BM (30°-60°)	2532.0	10.8	B3/5000		
BH (60°-80°)	305.4	1.3	B1/500		G1/500
BVH (80°-90°)	2.2	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°	38°	45°	55°	65°	75°	85°
0°	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3
2.5°	5258.8	5248.0	5269.5	5312.6	5352.9	5366.4	5406.8	5463.3	5498.3	5581.7	5649.0
5°	5021.9	5016.5	5038.1	5075.7	5129.6	5148.4	5210.3	5304.5	5398.7	5544.0	5686.7
7.5°	4806.6	4803.9	4836.2	4919.7	4997.7	5021.9	5097.3	5213.0	5339.5	5562.9	5772.8
10°	4524.0	4526.7	4588.6	4707.0	4849.7	4898.1	5019.2	5186.1	5350.3	5638.2	5928.9
12.5°	4432.5	4437.9	4470.2	4561.7	4717.8	4779.7	4949.3	5202.2	5412.2	5745.9	6130.7
15°	4655.9	4655.9	4629.0	4639.8	4709.7	4766.2	4943.9	5256.1	5517.1	5875.1	6329.9
17.5°	5089.2	5073.1	5005.8	4914.3	4890.0	4908.9	5051.5	5371.8	5665.1	6025.8	6555.9
20°	5675.9	5681.3	5549.4	5358.3	5204.9	5202.2	5288.4	5576.3	5877.7	6206.1	6800.9
22.5°	6386.4	6364.9	6189.9	5928.9	5662.4	5640.9	5675.9	5888.5	6184.6	6491.4	7102.3
25°	7209.9	7199.2	6951.6	6601.7	6249.1	6198.0	6198.0	6407.9	6623.2	6897.7	7462.9
27.5°	8071.1	8071.1	7831.6	7427.9	6959.6	6868.1	6854.7	7102.3	7244.9	7298.7	7767.0
30°	8956.6	8945.8	8709.0	8294.5	7793.9	7699.7	7662.1	7845.1	7947.3	7785.9	8146.5
32.5°	9855.4	9874.3	9634.8	9249.9	8803.2	8741.3	8625.5	8625.5	8709.0	8482.9	8744.0
35°	10821.6	10816.2	10627.8	10366.8	9984.6	9914.7	9723.6	9424.8	9551.3	9451.8	9570.2
37.5°	11674.8	11715.1	11623.6	11429.8	11120.3	11050.4	10735.5	10194.6	10291.4	10447.5	10552.5
40°	12541.3	12573.6	12665.1	12603.2	12213.0	12083.8	11524.0	10635.9	10743.6	11279.1	11580.6
42.5°	13391.8	13407.9	13593.6	13695.9	13173.8	12947.7	12121.5	10905.0	11018.1	11930.4	12457.9
45°	13932.7	13967.7	14274.5	14586.7	14021.5	13712.0	12640.9	11249.5	11298.0	12382.6	13106.5
47.5°	13911.2	13991.9	14567.9	15135.7	14750.9	14417.2	13265.3	11801.2	11720.5	12807.8	13534.4
50°	13477.9	13574.8	14401.0	15302.6	15275.7	14966.2	13959.6	12600.6	12347.6	13184.6	13588.2
52.5°	12579.0	12858.9	14107.7	15324.1	15698.2	15542.1	14818.2	13677.1	13195.3	13725.5	13674.4
55°	10635.9	10980.4	13216.9	15141.1	16080.4	16099.2	15719.7	14799.3	14115.7	14656.7	14204.6
57.5°	8073.8	8348.3	10173.0	13477.9	15447.9	15757.4	16069.6	15391.4	14683.6	15291.8	14328.3
60°	4865.8	5183.4	6370.2	9890.4	12476.8	13004.2	14228.8	14096.9	13243.8	13504.8	11750.1
62.5°	1972.7	2139.6	2941.6	5449.8	7853.1	8345.6	9519.0	9718.2	9508.3	9241.8	7126.5
65°	721.3	788.5	1178.8	2252.6	3611.7	3792.0	4411.0	4763.6	5054.2	4303.3	2650.9
67.5°	446.8	489.8	767.0	1157.2	1313.3	1221.8	1243.4	1482.9	1415.6	874.7	473.7
70°	331.0	366.0	600.2	802.0	530.2	409.1	277.2	296.0	266.4	234.1	231.4
72.5°	228.8	261.1	449.4	473.7	204.5	145.3	102.3	142.6	161.5	158.8	164.2
75°	150.7	174.9	282.6	185.7	51.1	40.4	35.0	75.4	96.9	96.9	99.6
77.5°	88.8	102.3	99.6	37.7	10.8	10.8	8.1	13.5	21.5	24.2	29.6
80°	10.8	8.1	5.4	5.4	5.4	5.4	5.4	5.4	8.1	8.1	8.1
82.5°	2.7	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4	8.1	8.1
85°	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	5.4	8.1	8.1
87.5°	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	5.4	8.1	8.1
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°	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3	5646.3
2.5°	5700.1	5681.3	5759.3	5815.8	5861.6	5883.1	5853.5	5850.8	5850.8	5791.6	5775.5
5°	5767.4	5775.5	5885.8	5934.3	5942.3	5915.4	5848.1	5802.4	5775.5	5713.6	5678.6
7.5°	5896.6	5923.5	6028.5	6020.4	5947.7	5823.9	5646.3	5509.0	5420.2	5323.3	5264.1
10°	6082.3	6133.4	6198.0	6085.0	5853.5	5538.6	5172.6	4911.6	4755.5	4645.1	4577.9
12.5°	6308.3	6359.5	6338.0	6071.5	5589.8	5027.3	4556.3	4179.6	3999.2	3899.7	3829.7
15°	6537.1	6569.4	6429.5	5910.0	5124.2	4367.9	3843.1	3469.1	3248.4	3167.6	3108.4
17.5°	6771.2	6763.2	6445.6	5592.5	4502.5	3625.1	3108.4	2852.8	2790.9	2777.4	2772.0
20°	7016.2	6943.5	6381.0	5137.6	3754.3	2890.4	2597.1	2613.2	2726.3	2780.1	2790.9
22.5°	7296.0	7113.0	6219.5	4521.3	2990.0	2408.7	2438.3	2597.1	2750.5	2823.1	2833.9
25°	7594.8	7269.1	5950.4	3730.1	2357.6	2214.9	2389.9	2572.9	2737.0	2825.8	2836.6
27.5°	7791.2	7306.8	5509.0	2933.5	2023.8	2139.6	2325.3	2500.2	2669.7	2766.6	2780.1
30°	8003.9	7290.7	4908.9	2260.7	1910.8	2075.0	2236.4	2395.2	2551.3	2659.0	2669.7
32.5°	8316.0	7279.9	4176.9	1835.4	1865.1	2023.8	2142.3	2274.1	2381.8	2443.7	2435.6
35°	8725.1	7266.4	3323.7	1655.1	1838.1	1983.5	2077.7	2139.6	2021.1	1983.5	1991.5
37.5°	9249.9	7298.7	2605.2	1579.8	1830.1	1972.7	2053.4	1875.8	1692.8	1622.8	1612.1
40°	9831.2	7382.2	1986.2	1550.2	1857.0	1999.6	1961.9	1668.6	1442.5	1305.3	1275.7
42.5°	10415.2	7473.7	1571.7	1539.4	1902.7	2075.0	1811.2	1517.9	1178.8	1100.7	1090.0
45°	10848.5	7457.5	1359.1	1520.6	1943.1	2118.0	1770.9	1302.6	1052.3	1017.3	1020.0
47.5°	11066.5	7279.9	1243.4	1477.5	1959.2	2075.0	1671.3	1213.8	966.2	1003.8	1036.1
50°	10950.8	6819.7	1135.7	1394.1	1924.3	2018.5	1512.5	1146.5	923.1	1079.2	1151.9
52.5°	10810.9	6254.5	1017.3	1264.9	1840.8	1940.4	1450.6	1127.6	896.2	1041.5	1095.3
55°	10996.6	5896.6	823.5	1065.7	1676.7	1757.4	1402.2	1125.0	834.3	810.1	802.0
57.5°	10735.5	5183.4	589.4	767.0	1286.4	1391.4	1367.2	1106.1	740.1	737.4	748.2
60°	8297.2	3162.2	403.7	487.1	788.5	888.1	1240.7	1057.7	637.8	586.7	589.4
62.5°	4715.1	1345.6	277.2	301.4	403.7	479.0	947.3	960.8	589.4	559.8	589.4
65°	1641.7	481.7	215.3	201.8	223.4	255.7	543.6	742.8	535.6	484.4	489.8
67.5°	339.1	239.5	191.1	166.9	166.9	166.9	277.2	462.9	441.4	384.9	390.2
70°	215.3	204.5	166.9	142.6	137.3	126.5	158.8	255.7	304.1	279.9	282.6
72.5°	158.8	156.1	131.9	115.7	102.3	91.5	99.6	126.5	156.1	161.5	164.2
75°	96.9	99.6	86.1	72.7	64.6	56.5	59.2	59.2	59.2	53.8	59.2
77.5°	29.6	32.3	26.9	21.5	18.8	18.8	18.8	16.1	13.5	8.1	8.1
80°	8.1	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	0.0	0.0
82.5°	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	0.0	0.0	0.0
85°	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	0.0	0.0	0.0
87.5°	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	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)