

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: P642147

Luminaire Tested: GWS-SA6C-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21092.2 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

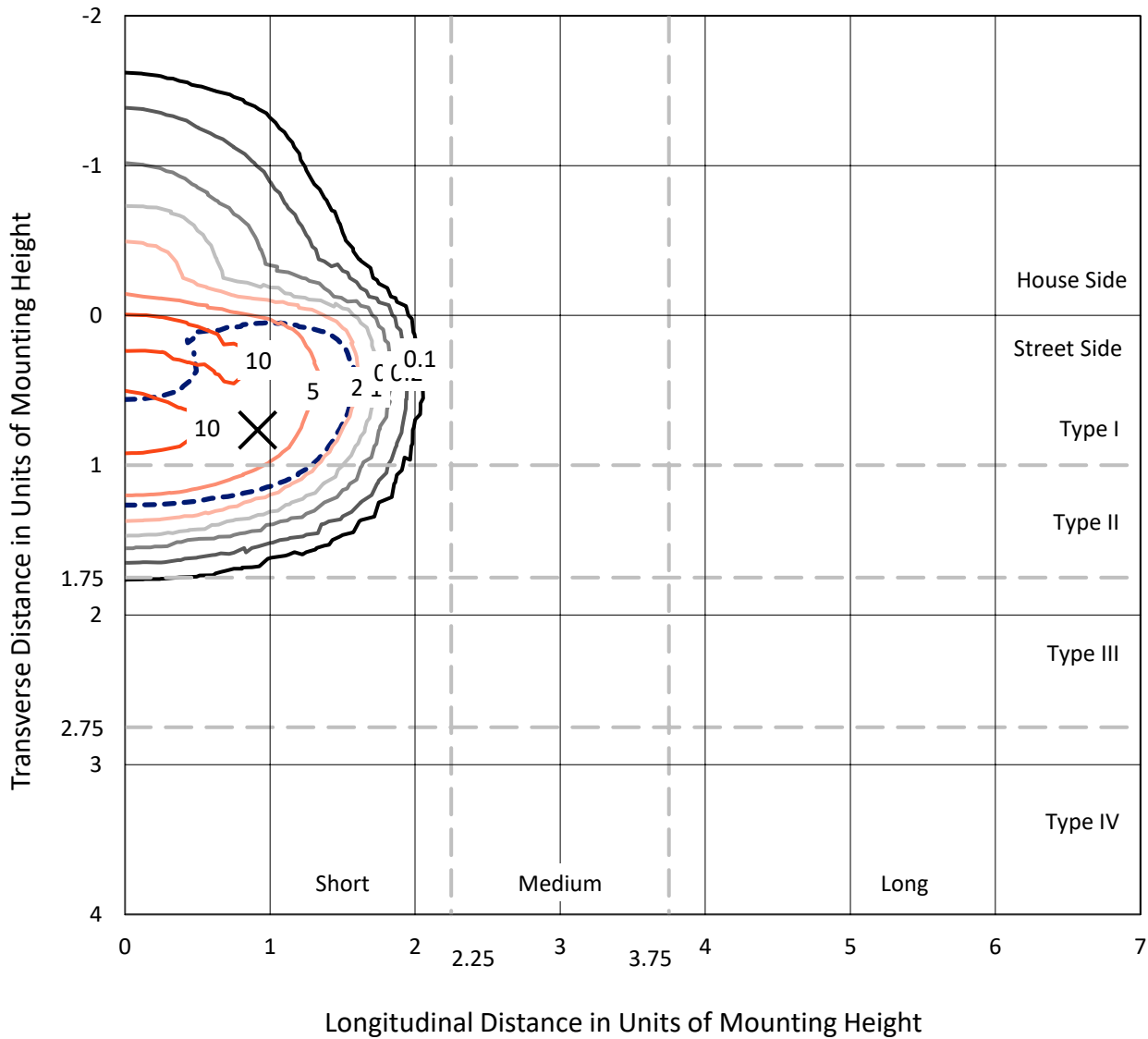
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

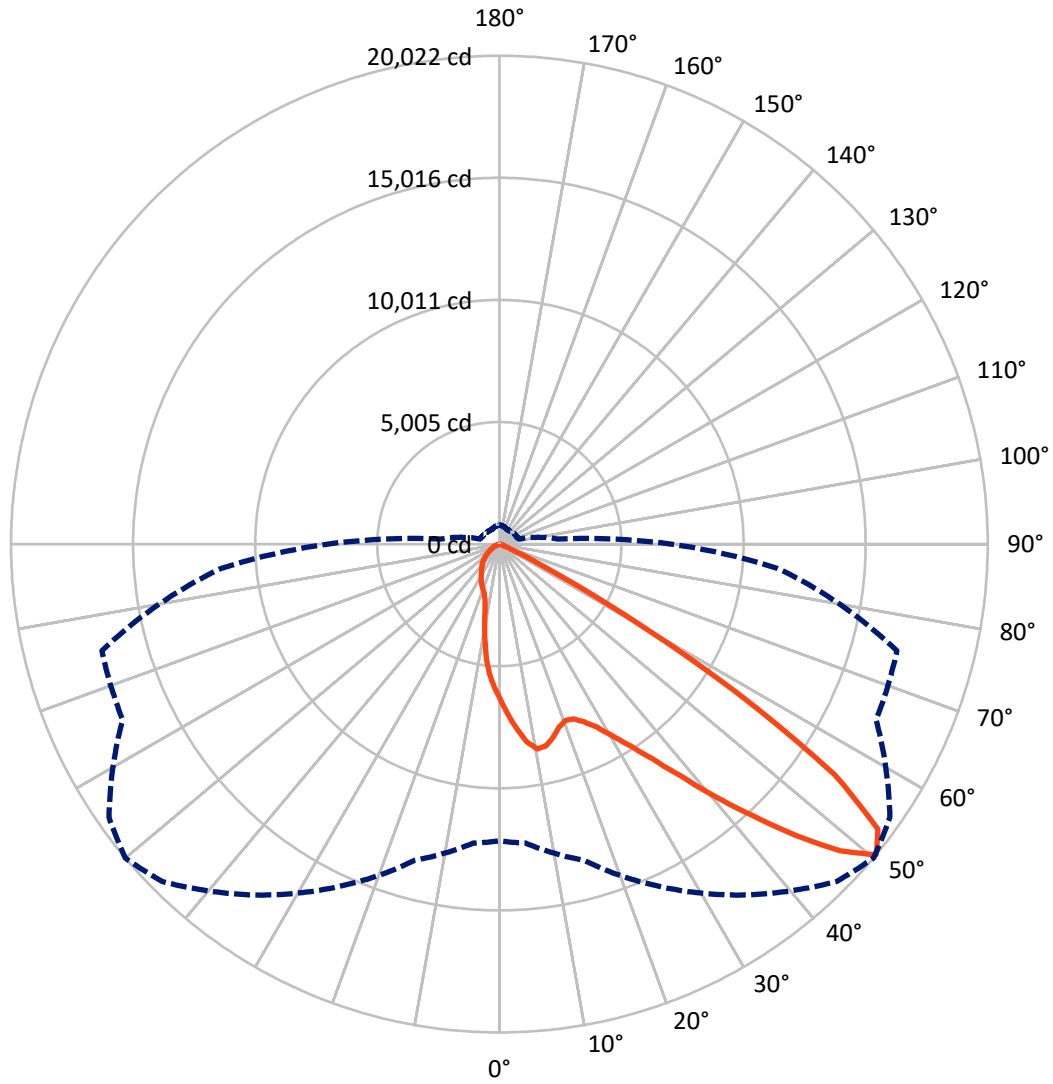
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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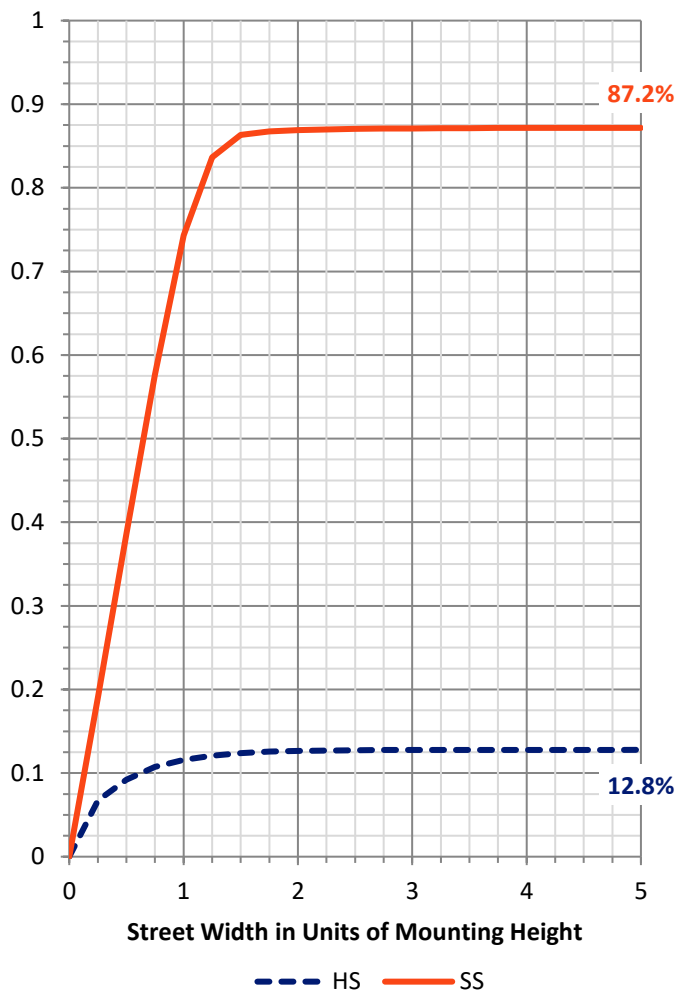
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2710.0	0.0	2710.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	18382.2	0.0	18382.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	21092.2	0.0	21092.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	2.8
10°-20°	1529.4	7.3
20°-30°	2524.1	12.0
30°-40°	4165.3	19.7
40°-50°	6590.4	31.2
50°-60°	4989.7	23.7
60°-70°	624.5	3.0
70°-80°	70.6	0.3
80°-90°	5.4	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°	21092.2	100.0
0°-180°	21092.2	100.0

Coefficient of Utilization



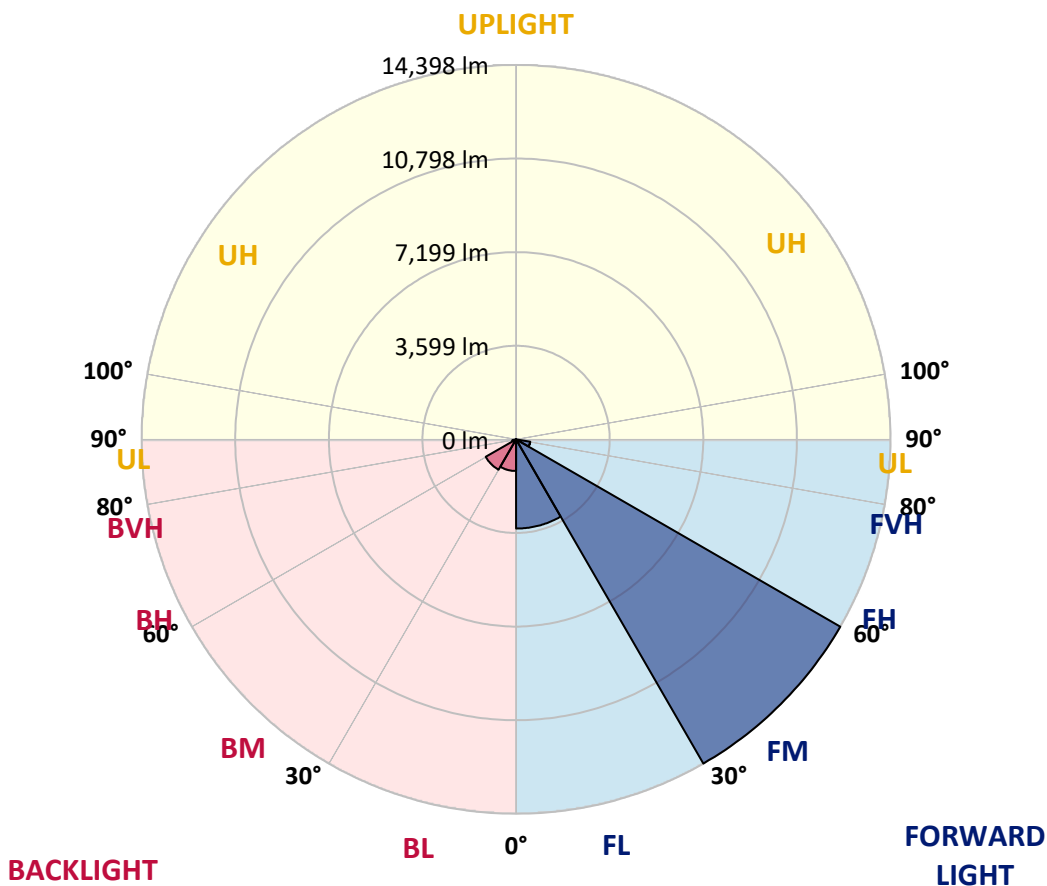
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3429.9	16.3			
FM (30°-60°)	14397.6	68.3			
FH (60°-80°)	552.1	2.6			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1216.4	5.8	B3/2500		
BM (30°-60°)	1347.8	6.4	B2/2500		
BH (60°-80°)	143.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.9	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1
2.5°	7281.5	7339.7	7323.6	7247.3	7165.0	7106.8	7016.5	6988.4	6783.6	6641.0	6490.5
5°	8160.8	8178.8	8158.8	8066.4	7921.9	7783.4	7634.8	7548.5	7205.2	6896.0	6580.8
7.5°	8371.6	8349.5	8387.6	8433.8	8413.7	8353.5	8196.9	8102.6	7693.0	7189.1	6711.3
10°	7713.1	7662.9	7805.4	8044.3	8295.3	8578.4	8538.2	8546.2	8168.8	7558.5	6882.0
12.5°	6839.8	6819.7	6926.1	7203.2	7695.0	8337.4	8492.0	8751.0	8604.4	7958.0	7076.7
15°	6456.3	6466.4	6530.6	6705.3	7058.6	7857.6	8229.0	8696.8	8993.9	8345.5	7291.5
17.5°	6514.6	6550.7	6548.7	6606.9	6821.7	7462.1	7895.8	8526.2	9295.1	8791.2	7538.4
20°	6910.1	6946.2	6892.0	6847.8	6920.1	7361.8	7721.1	8353.5	9497.8	9240.8	7799.4
22.5°	7502.3	7544.5	7416.0	7289.5	7243.3	7526.4	7787.4	8283.2	9652.4	9652.4	8032.3
25°	8219.0	8277.2	8078.5	7853.6	7725.1	7873.7	8070.4	8441.8	9811.0	10021.8	8190.9
27.5°	9020.0	9022.0	8851.4	8598.4	8357.5	8375.6	8494.0	8799.2	9985.7	10419.3	8315.4
30°	9921.4	9927.4	9700.6	9397.4	9094.3	9012.0	9112.4	9343.2	10349.0	10919.2	8488.0
32.5°	11085.8	11113.9	10788.7	10343.0	9949.5	9794.9	9853.2	10096.1	10927.2	11545.5	8747.0
35°	12659.7	12689.9	12210.0	11621.8	10995.5	10762.6	10820.8	11065.7	11764.4	12434.9	9160.5
37.5°	14213.6	14253.8	13767.9	13219.9	12360.6	11975.2	12035.4	12268.3	13021.1	13663.5	9823.0
40°	15287.7	15341.9	15191.3	14821.9	14024.9	13519.0	13591.3	13675.6	14404.3	15133.1	10682.3
42.5°	15853.8	15930.1	15994.3	16183.0	15763.4	15339.8	15217.4	15223.4	15811.6	16630.7	11575.7
45°	15887.9	15962.2	16291.4	17020.2	17339.4	17251.1	17028.2	16877.6	16885.7	17628.5	12133.8
47.5°	14783.8	14922.3	15538.6	16966.0	18166.5	18899.3	18786.8	18429.5	17337.4	17694.7	12073.5
50°	12167.9	12304.4	13424.6	15478.4	17564.2	19557.8	20021.5	19541.7	17042.3	16869.6	11453.2
52.5°	8837.3	8851.4	9578.1	11977.2	15123.0	18343.2	19435.3	19389.1	16592.6	15869.8	10606.0
55°	4197.8	4147.6	4964.7	6759.5	10459.4	14835.9	16676.9	17198.9	15954.2	15147.1	9949.5
57.5°	1222.6	1246.7	1610.1	2637.9	5231.7	9481.8	11421.1	12392.7	13095.4	12453.0	7717.1
60°	548.1	550.1	612.3	803.0	1742.6	4410.6	5904.3	7106.8	7829.5	7255.4	3828.4
62.5°	397.5	399.5	423.6	453.7	592.2	1493.6	2214.4	2951.1	3005.3	1967.4	969.7
65°	331.2	331.2	335.3	335.3	355.3	534.0	672.5	867.3	730.8	542.0	379.4
67.5°	267.0	269.0	273.0	273.0	267.0	267.0	289.1	317.2	339.3	419.6	349.3
70°	208.8	206.8	206.8	208.8	202.8	172.7	186.7	212.8	232.9	327.2	303.1
72.5°	162.6	164.6	162.6	154.6	140.5	102.4	110.4	138.5	148.6	204.8	204.8
75°	122.5	124.5	116.4	88.3	58.2	32.1	42.2	68.3	86.3	100.4	74.3
77.5°	16.1	16.1	12.0	12.0	10.0	12.0	12.0	16.1	24.1	24.1	18.1
80°	2.0	2.0	2.0	4.0	6.0	8.0	8.0	8.0	8.0	10.0	10.0
82.5°	2.0	2.0	2.0	2.0	6.0	6.0	8.0	8.0	8.0	8.0	8.0
85°	0.0	0.0	0.0	2.0	4.0	6.0	6.0	8.0	8.0	8.0	8.0
87.5°	0.0	0.0	0.0	2.0	4.0	6.0	6.0	6.0	8.0	8.0	8.0
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°	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1	6390.1
2.5°	6400.1	6283.7	6143.2	6046.8	5910.3	5819.9	5691.5	5605.1	5530.9	5472.6	5504.8
5°	6402.1	6217.4	5930.4	5685.4	5418.4	5173.5	4910.5	4703.7	4517.0	4432.7	4478.9
7.5°	6442.3	6177.3	5737.6	5302.0	4790.1	4284.2	3810.4	3424.9	3234.2	3143.9	3172.0
10°	6520.6	6159.2	5522.8	4800.1	3969.0	3278.4	2818.6	2557.6	2451.2	2395.0	2405.1
12.5°	6592.9	6147.2	5243.8	4139.6	3131.8	2543.6	2304.7	2268.6	2290.6	2292.6	2290.6
15°	6691.2	6125.1	4898.5	3461.1	2505.4	2198.3	2204.3	2256.5	2308.7	2324.8	2320.8
17.5°	6795.6	6091.0	4452.8	2810.6	2126.0	2097.9	2168.2	2238.4	2290.6	2298.7	2300.7
20°	6904.0	6020.7	3944.9	2294.7	1949.4	2021.6	2099.9	2152.1	2190.3	2202.3	2206.3
22.5°	6954.2	5872.1	3358.7	1925.3	1830.9	1927.3	1985.5	2053.7	2065.8	2021.6	2029.7
25°	6928.1	5621.2	2786.5	1676.3	1712.5	1808.8	1895.1	1861.0	1810.8	1778.7	1788.7
27.5°	6845.8	5287.9	2226.4	1493.6	1586.0	1708.4	1718.5	1680.3	1672.3	1646.2	1654.2
30°	6757.5	4904.5	1790.8	1347.1	1457.5	1586.0	1555.9	1569.9	1571.9	1541.8	1551.9
32.5°	6703.3	4503.0	1425.4	1248.7	1375.2	1399.3	1459.5	1487.6	1489.6	1419.4	1431.4
35°	6721.3	4107.5	1206.6	1168.4	1298.9	1292.9	1377.2	1393.3	1276.8	1180.5	1190.5
37.5°	6867.9	3742.1	1082.1	1106.2	1166.4	1212.6	1276.8	1170.4	1144.3	1100.1	1106.2
40°	7140.9	3430.9	1007.8	1068.0	1076.1	1150.3	1052.0	1066.0	1068.0	1039.9	1045.9
42.5°	7460.1	3172.0	963.6	1045.9	1025.9	1037.9	939.5	967.6	997.8	985.7	987.7
45°	7620.7	2919.0	925.5	969.7	975.7	861.2	839.2	869.3	907.4	913.4	915.5
47.5°	7478.2	2678.1	885.3	859.2	899.4	785.0	758.9	768.9	813.1	837.2	841.2
50°	7042.6	2401.1	825.1	760.9	738.8	704.7	680.6	682.6	732.8	774.9	783.0
52.5°	6430.2	2112.0	726.7	644.4	594.2	620.3	626.4	614.3	660.5	702.6	710.7
55°	5836.0	1750.6	576.2	524.0	477.8	534.0	550.1	534.0	548.1	576.2	578.2
57.5°	4109.5	989.7	441.7	433.6	395.5	457.7	483.8	459.7	435.6	453.7	457.7
60°	1905.2	518.0	339.3	339.3	329.2	393.5	437.7	403.5	357.3	365.4	371.4
62.5°	596.2	327.2	248.9	234.9	269.0	335.3	371.4	337.3	283.1	283.1	291.1
65°	337.3	281.1	196.7	180.7	218.8	269.0	291.1	255.0	206.8	202.8	202.8
67.5°	313.2	267.0	174.7	146.6	154.6	172.7	180.7	156.6	142.5	140.5	142.5
70°	259.0	222.8	140.5	100.4	94.4	92.3	96.4	90.3	86.3	88.3	94.4
72.5°	160.6	134.5	88.3	60.2	52.2	50.2	50.2	50.2	48.2	48.2	48.2
75°	58.2	50.2	40.2	30.1	26.1	24.1	24.1	26.1	24.1	22.1	20.1
77.5°	18.1	16.1	16.1	16.1	14.1	12.0	10.0	10.0	8.0	6.0	6.0
80°	10.0	10.0	10.0	10.0	8.0	8.0	6.0	4.0	2.0	2.0	0.0
82.5°	10.0	10.0	10.0	8.0	8.0	8.0	6.0	4.0	2.0	0.0	0.0
85°	8.0	8.0	8.0	8.0	8.0	8.0	6.0	4.0	2.0	0.0	0.0
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	6.0	4.0	2.0	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)