

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: P636237

Luminaire Tested: GWS-SA3F-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16165.7 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

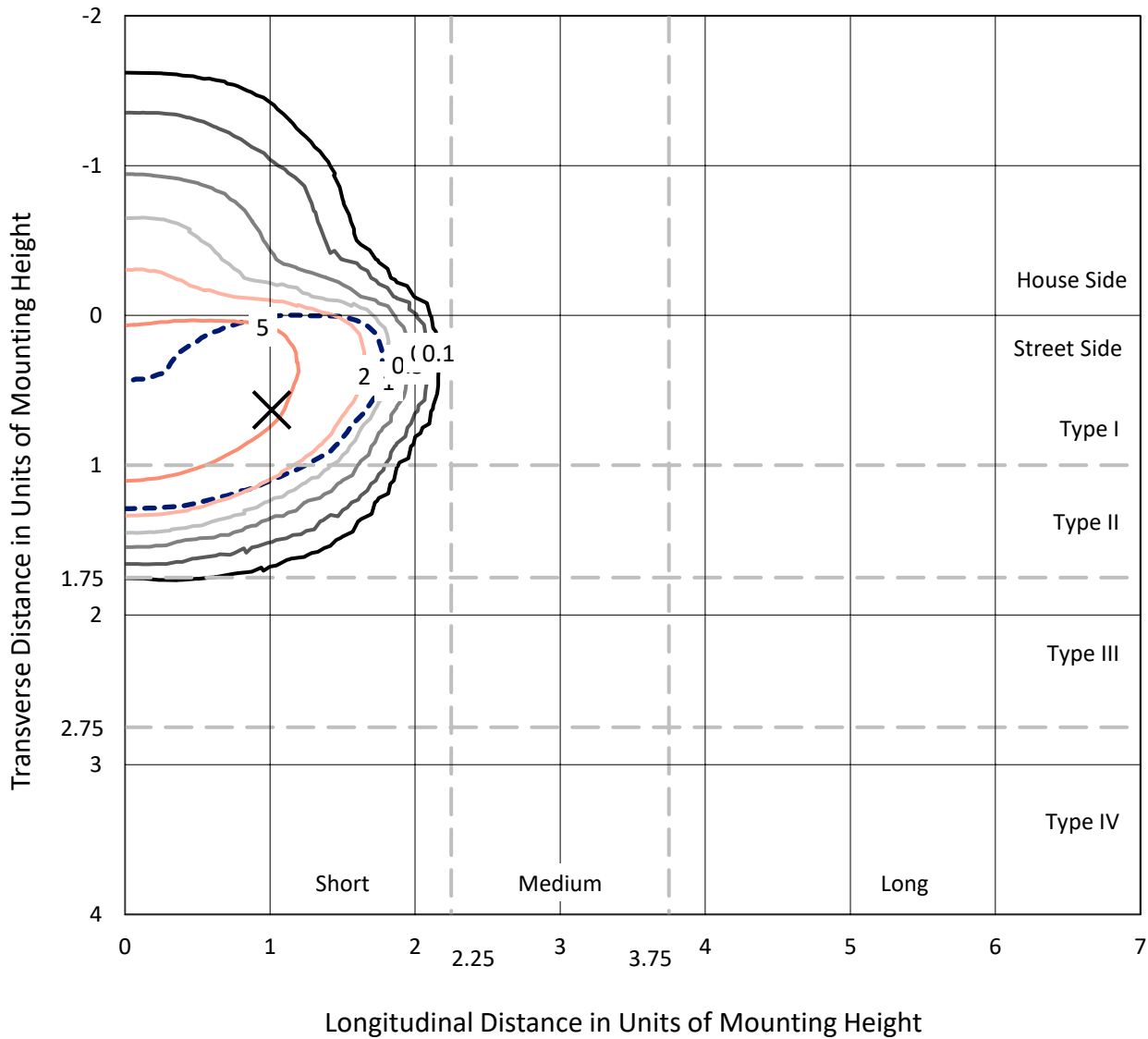
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636237
 CATALOG NUMBER: GWS-SA3F-735-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

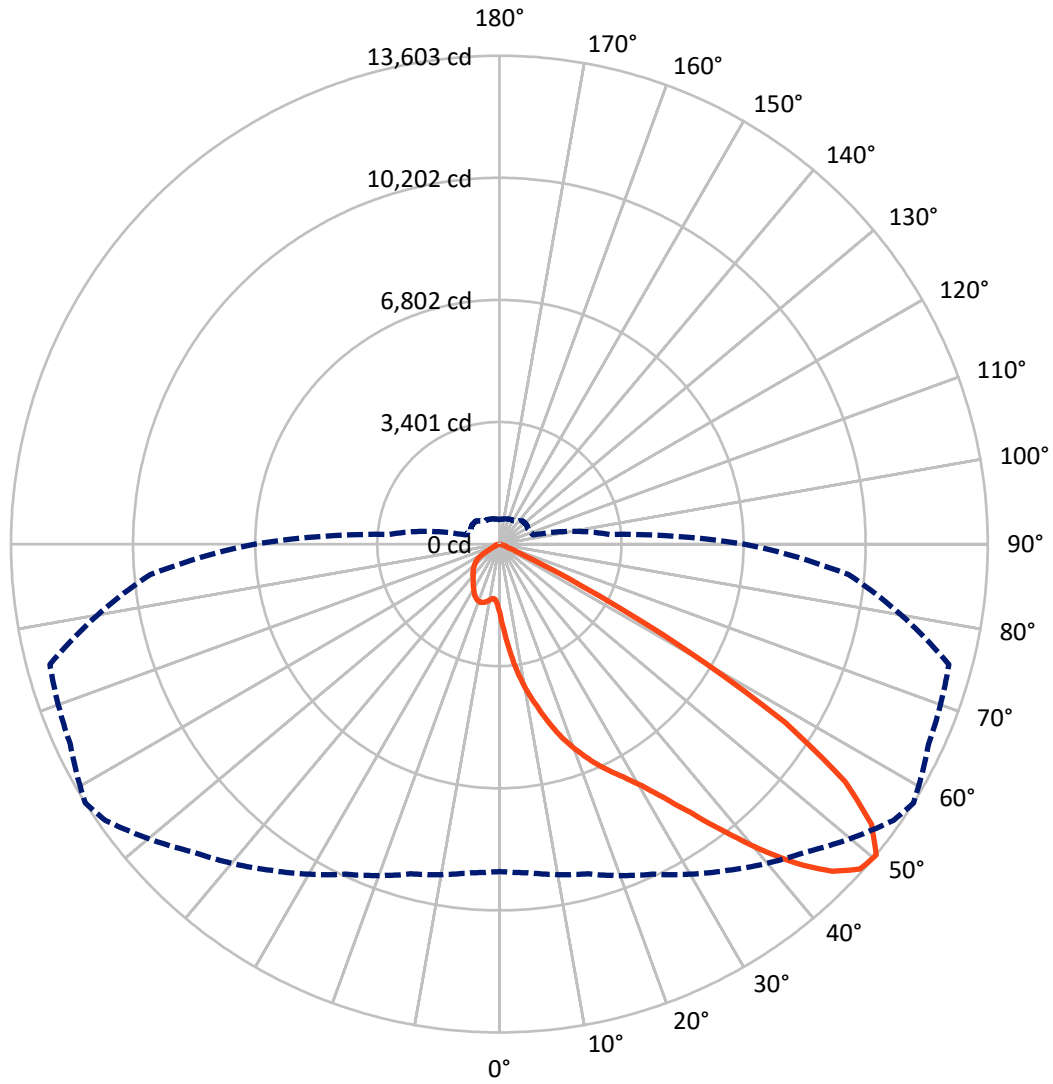
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P636237
CATALOG NUMBER: GWS-SA3F-735-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P636237

CATALOG NUMBER: GWS-SA3F-735-U-T2R-W-GRSBK

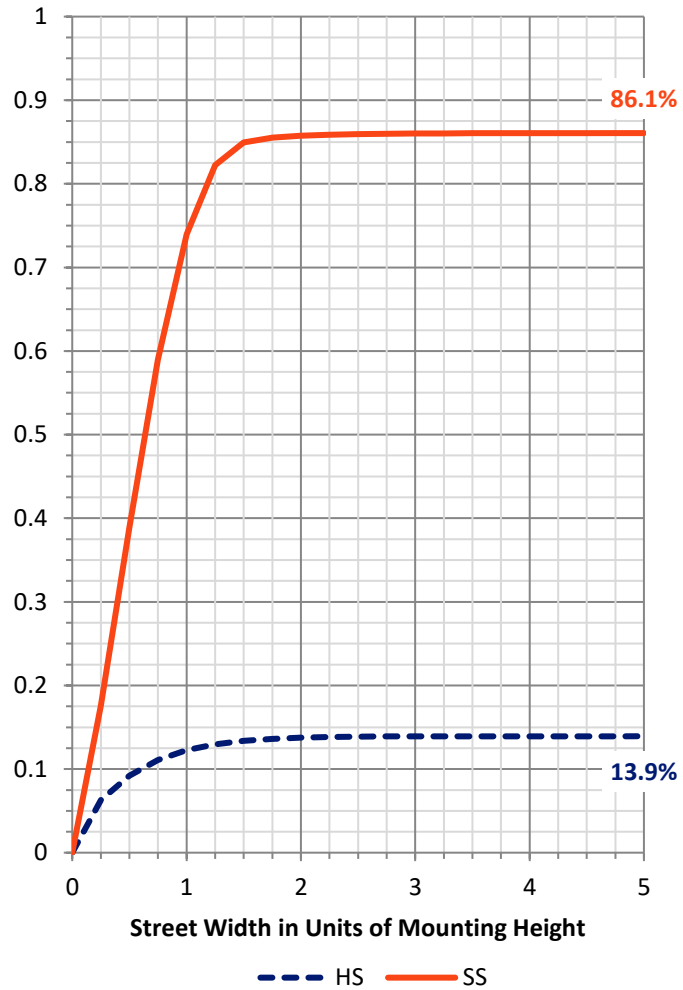
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2264.2	0.0	2264.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13901.5	0.0	13901.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	16165.7	0.0	16165.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	1.5
10°-20°	947.0	5.9
20°-30°	1916.3	11.9
30°-40°	3390.1	21.0
40°-50°	4942.0	30.6
50°-60°	3961.2	24.5
60°-70°	713.6	4.4
70°-80°	56.2	0.3
80°-90°	0.0	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°	16165.7	100.0
0°-180°	16165.7	100.0

Coefficient of Utilization



REPORT NUMBER: P636237

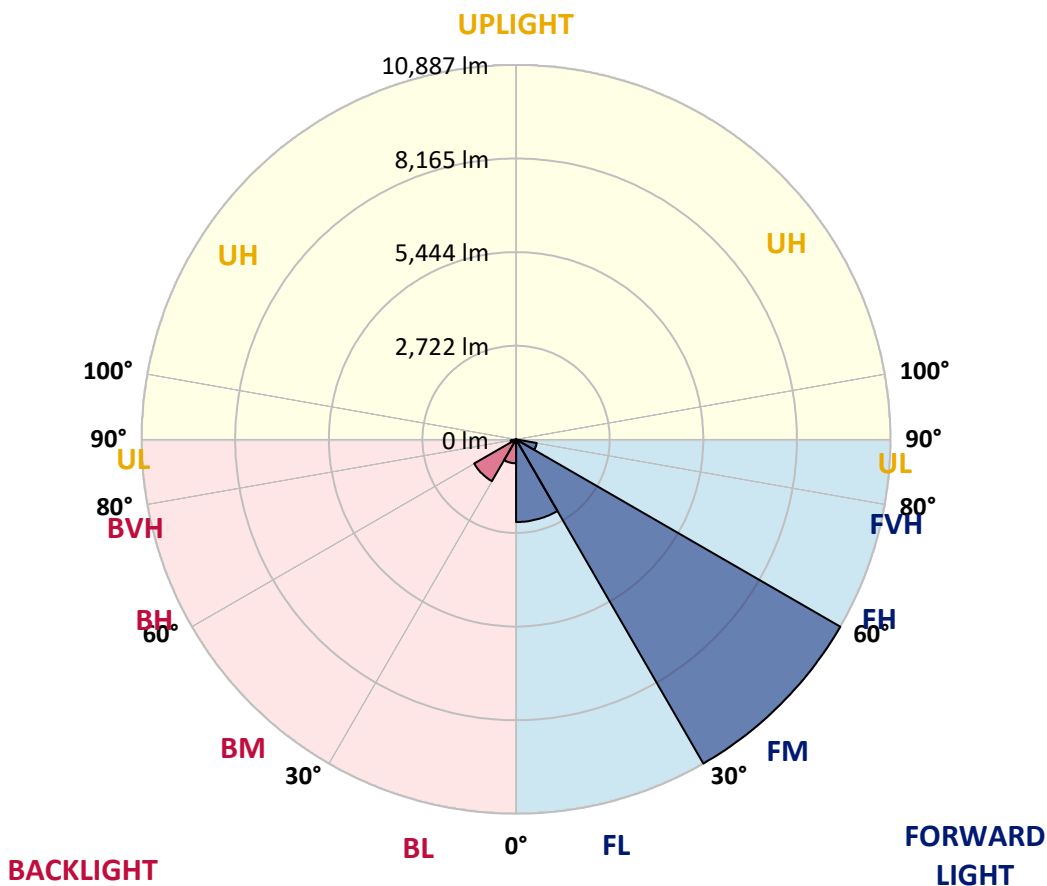
CATALOG NUMBER: GWS-SA3F-735-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.4	14.9			
FM (30°-60°)	10887.1	67.3			
FH (60°-80°)	609.0	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	697.1	4.3	B2/1000		
BM (30°-60°)	1406.2	8.7	B2/2500		
BH (60°-80°)	160.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	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





REPORT NUMBER: P636237

CATALOG NUMBER: GWS-SA3F-735-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0
2.5°	2857.6	2812.6	2786.7	2765.9	2674.3	2529.1	2434.0	2383.9	2300.9	2160.9	2039.9
5°	3728.8	3696.0	3635.5	3594.0	3476.4	3270.7	3058.1	2973.4	2784.9	2468.6	2185.1
7.5°	4306.2	4282.0	4259.5	4204.2	4093.6	3906.9	3671.8	3583.6	3293.2	2843.7	2378.7
10°	4750.5	4731.5	4705.5	4703.8	4617.4	4449.7	4219.8	4128.2	3813.5	3251.7	2606.9
12.5°	5141.2	5125.6	5120.4	5168.8	5113.5	4989.0	4740.1	4626.0	4292.4	3668.3	2859.3
15°	5409.1	5405.7	5428.1	5523.2	5554.3	5497.3	5288.1	5165.4	4781.6	4086.7	3137.6
17.5°	5531.9	5542.2	5585.5	5749.7	5888.0	5936.4	5775.6	5671.9	5267.4	4510.2	3434.9
20°	5741.0	5737.6	5763.5	5919.1	6088.5	6261.4	6213.0	6124.8	5758.3	4957.9	3765.1
22.5°	6330.5	6280.4	6225.1	6249.3	6309.8	6512.0	6601.9	6557.0	6264.8	5417.8	4105.7
25°	7236.4	7184.5	7006.4	6833.6	6719.5	6811.1	6933.8	6956.3	6767.9	5889.7	4461.8
27.5°	8197.5	8150.9	7950.3	7691.0	7364.3	7205.2	7296.9	7341.8	7262.3	6451.5	4840.4
30°	9098.2	9035.9	8816.4	8494.9	8116.3	7872.5	7768.8	7799.9	7846.6	7117.1	5284.7
32.5°	9879.6	9832.9	9570.1	9231.3	8866.5	8612.4	8370.4	8422.3	8536.4	7931.3	5853.4
35°	10541.7	10517.5	10239.1	9902.0	9516.5	9386.9	9179.4	9189.8	9303.9	8914.9	6546.6
37.5°	11117.3	11075.8	10823.4	10510.5	10204.6	10183.8	10126.8	10131.9	10190.7	10061.1	7343.5
40°	11480.3	11442.3	11262.5	11068.9	10851.1	10854.5	11150.2	11172.6	11105.2	11186.5	8185.4
42.5°	11616.9	11589.2	11492.4	11494.2	11471.7	11573.7	12128.6	12170.1	11928.1	12069.8	8904.6
45°	11380.1	11368.0	11374.9	11623.8	11893.5	12208.1	12929.0	13001.6	12659.3	12655.9	9466.4
47.5°	10616.0	10591.8	10794.0	11217.6	11841.6	12453.6	13413.0	13525.4	13171.0	12991.2	9819.1
50°	9118.9	9188.1	9507.9	10144.0	11093.1	12116.5	13407.8	13603.2	13190.0	12961.8	9760.3
52.5°	6605.4	6591.6	7291.7	8166.4	9321.2	11037.8	12695.6	12980.9	12728.5	12673.1	9628.9
55°	3594.0	3720.2	4192.1	5350.3	6792.1	8996.2	11068.9	11691.2	11983.4	12567.7	9865.7
57.5°	1320.7	1376.1	1671.7	2491.1	3595.7	5594.1	8455.1	9393.8	10296.2	12273.8	9826.0
60°	532.4	542.8	660.4	916.2	1510.9	2847.2	5072.0	5905.3	6755.8	9395.5	7540.6
62.5°	387.2	401.1	447.7	535.9	764.1	1244.7	2186.8	2542.9	2779.8	4653.7	3715.0
65°	312.9	323.3	361.3	401.1	504.8	669.0	705.3	679.4	675.9	1203.2	852.3
67.5°	259.3	269.7	297.3	325.0	363.0	333.6	242.0	254.1	207.4	205.7	167.7
70°	190.2	202.3	229.9	259.3	217.8	89.9	140.0	207.4	157.3	131.4	127.9
72.5°	143.5	152.1	178.1	169.4	64.0	34.6	93.4	150.4	121.0	96.8	95.1
75°	107.2	112.4	89.9	27.7	6.9	8.6	34.6	62.2	67.4	55.3	55.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.2	6.9	8.6	10.4
80°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P636237
 CATALOG NUMBER: GWS-SA3F-735-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0	1931.0
2.5°	1970.7	1898.1	1794.4	1708.0	1642.3	1578.3	1529.9	1481.5	1479.8	1455.6	1450.4
5°	2053.7	1922.3	1732.2	1595.6	1512.6	1462.5	1427.9	1410.6	1402.0	1393.3	1389.9
7.5°	2173.0	1984.6	1721.8	1576.6	1507.4	1474.6	1450.4	1440.0	1434.8	1427.9	1426.2
10°	2319.9	2074.4	1759.8	1612.9	1552.4	1521.3	1495.3	1479.8	1471.1	1459.0	1455.6
12.5°	2496.3	2185.1	1820.3	1673.4	1609.4	1567.9	1533.4	1510.9	1498.8	1483.2	1479.8
15°	2686.4	2304.4	1887.7	1728.7	1652.6	1599.1	1555.8	1521.3	1498.8	1479.8	1474.6
17.5°	2883.5	2425.4	1948.3	1766.7	1673.4	1609.4	1547.2	1500.5	1472.9	1448.7	1441.7
20°	3104.8	2549.8	1988.0	1773.7	1666.5	1581.8	1509.2	1450.4	1422.7	1389.9	1383.0
22.5°	3336.4	2665.7	2005.3	1758.1	1628.4	1529.9	1452.1	1391.6	1351.8	1317.3	1306.9
25°	3561.1	2769.4	1996.7	1714.9	1571.4	1457.3	1377.8	1315.5	1272.3	1237.8	1229.1
27.5°	3799.7	2855.8	1965.5	1650.9	1493.6	1377.8	1301.7	1248.1	1208.4	1170.3	1161.7
30°	4067.6	2935.3	1915.4	1573.1	1402.0	1296.5	1237.8	1201.5	1158.2	1118.5	1106.4
32.5°	4390.9	3006.2	1842.8	1479.8	1320.7	1225.7	1192.8	1165.1	1115.0	1073.5	1064.9
35°	4760.9	3065.0	1751.2	1383.0	1241.2	1180.7	1173.8	1137.5	1071.8	1023.4	1013.0
37.5°	5189.6	3122.0	1642.3	1287.9	1182.4	1160.0	1161.7	1099.5	1019.9	961.2	954.2
40°	5651.1	3179.1	1521.3	1204.9	1128.8	1147.9	1132.3	1044.1	914.5	857.4	850.5
42.5°	6131.7	3241.3	1398.5	1127.1	1083.9	1101.2	1078.7	933.5	840.2	810.8	807.3
45°	6565.6	3315.7	1265.4	1049.3	1039.0	1033.8	995.7	845.3	805.6	784.8	783.1
47.5°	6878.5	3303.6	1123.7	975.0	990.5	973.3	857.4	803.8	771.0	743.3	736.4
50°	6821.5	3092.7	976.7	892.0	928.3	912.8	771.0	755.4	726.1	696.7	686.3
52.5°	6676.3	2805.7	848.8	803.8	860.9	824.6	712.2	696.7	670.7	632.7	620.6
55°	6754.1	2536.0	748.5	733.0	791.7	682.8	646.5	622.3	594.7	553.2	548.0
57.5°	6503.4	2069.3	601.6	612.0	700.1	582.6	567.0	529.0	482.3	454.6	451.2
60°	4501.6	1111.6	376.9	389.0	506.5	489.2	508.2	473.7	416.6	390.7	385.5
62.5°	2067.5	446.0	205.7	197.1	266.2	331.9	435.6	432.2	361.3	319.8	316.4
65°	501.3	204.0	146.9	138.3	150.4	198.8	283.5	340.6	292.2	243.7	238.6
67.5°	162.5	166.0	134.8	126.2	133.1	148.7	169.4	188.4	186.7	171.1	167.7
70°	129.7	150.4	124.5	114.1	114.1	119.3	114.1	91.6	79.5	86.4	89.9
72.5°	96.8	114.1	98.5	88.2	84.7	83.0	70.9	51.9	36.3	32.8	31.1
75°	57.0	64.0	60.5	51.9	48.4	43.2	34.6	22.5	12.1	8.6	5.2
77.5°	10.4	12.1	13.8	10.4	8.6	6.9	5.2	1.7	0.0	0.0	0.0
80°	0.0	1.7	1.7	1.7	0.0	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)