

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: P635987

Luminaire Tested: GWS-SA3E-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635987
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-SA3E-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13157.3 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

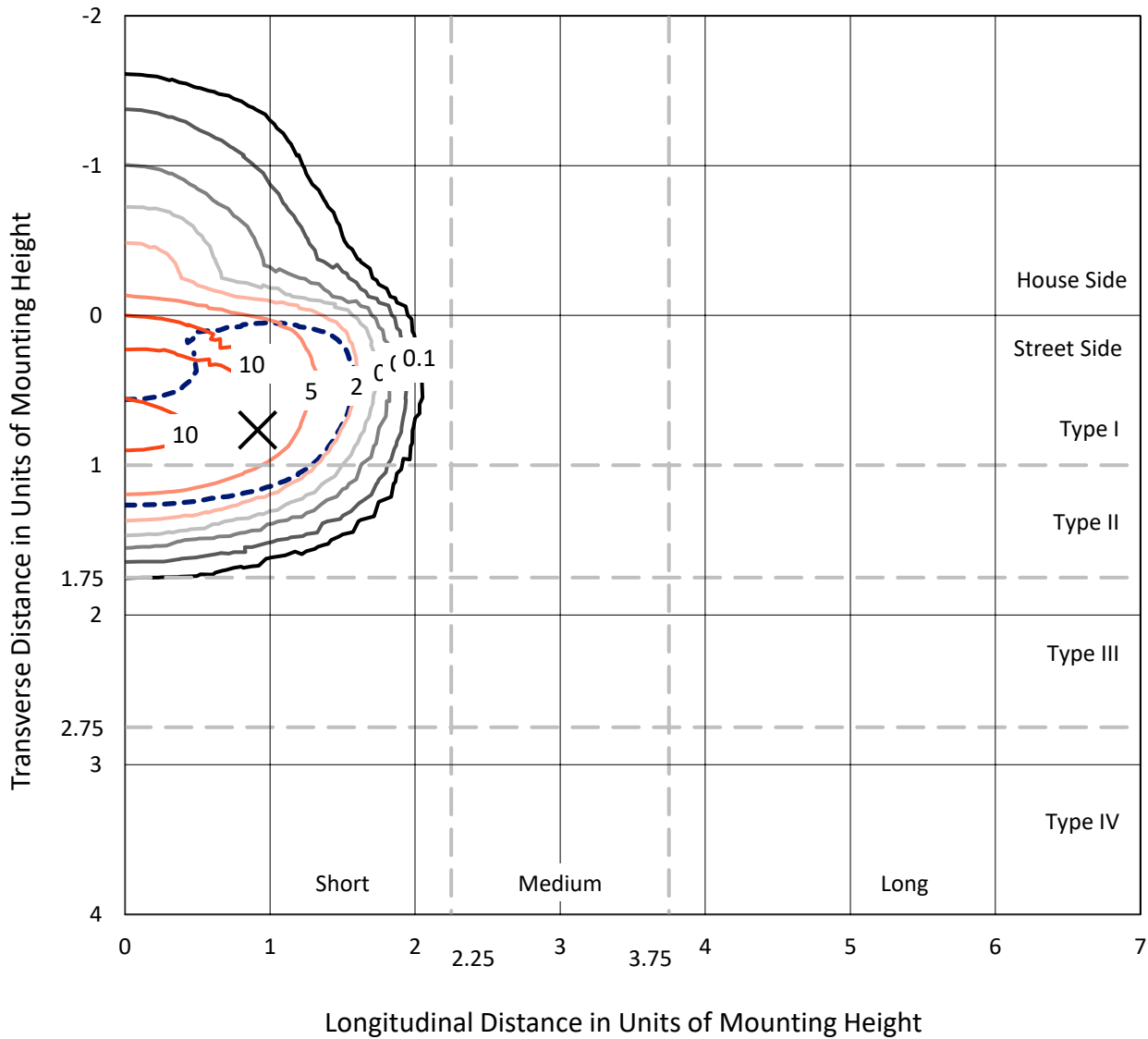
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

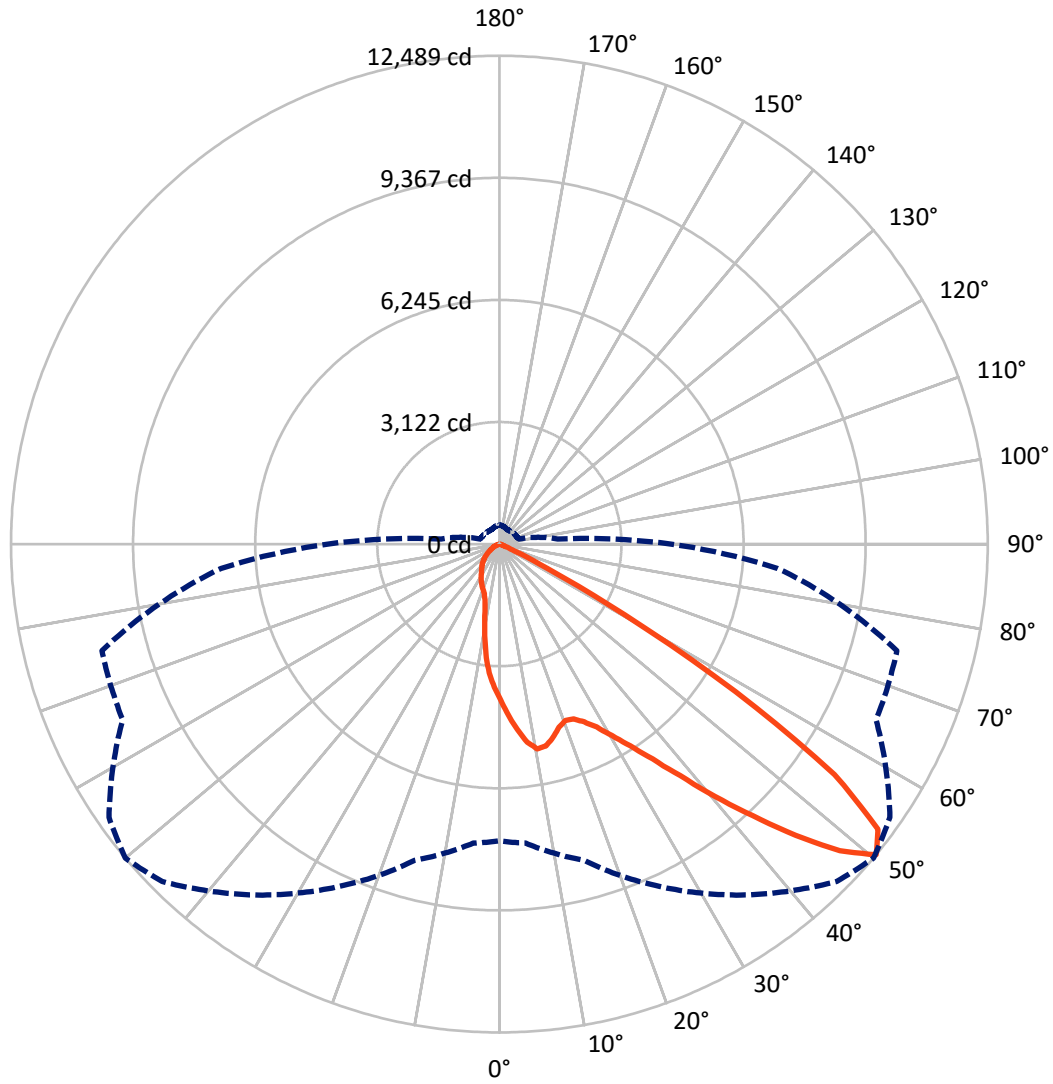
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

REPORT NUMBER: P635987
CATALOG NUMBER: GWS-SA3E-830-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA3E-830-U-AFL-W-GRSBK

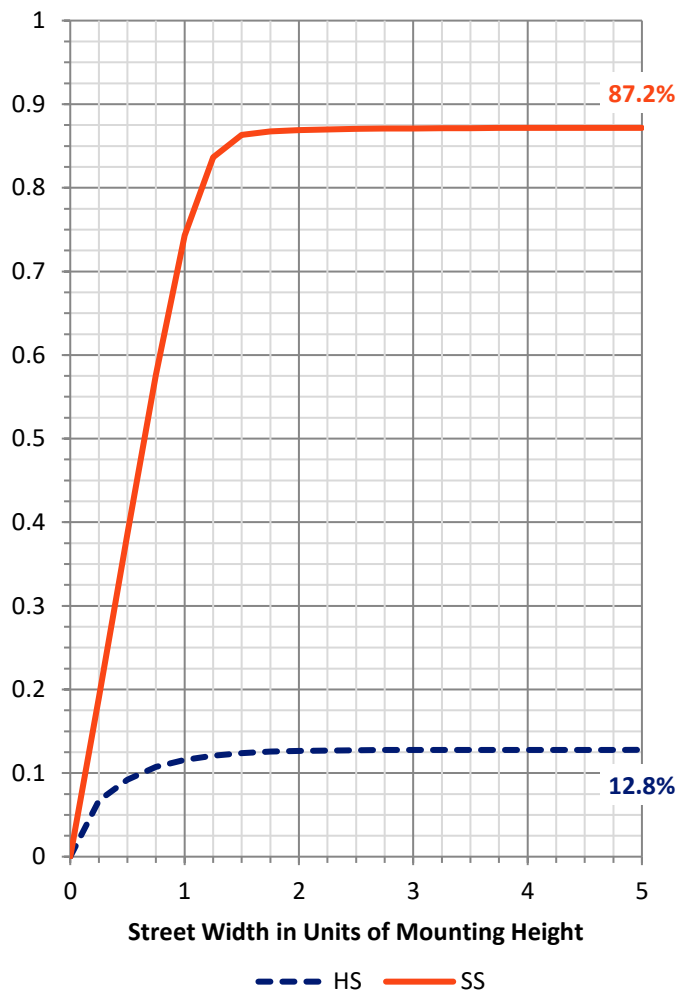
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1690.5	0.0	1690.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11466.8	0.0	11466.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	13157.3	0.0	13157.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	2.8
10°-20°	954.0	7.3
20°-30°	1574.5	12.0
30°-40°	2598.3	19.7
40°-50°	4111.1	31.2
50°-60°	3112.6	23.7
60°-70°	389.6	3.0
70°-80°	44.1	0.3
80°-90°	3.4	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°	13157.3	100.0
0°-180°	13157.3	100.0

Coefficient of Utilization



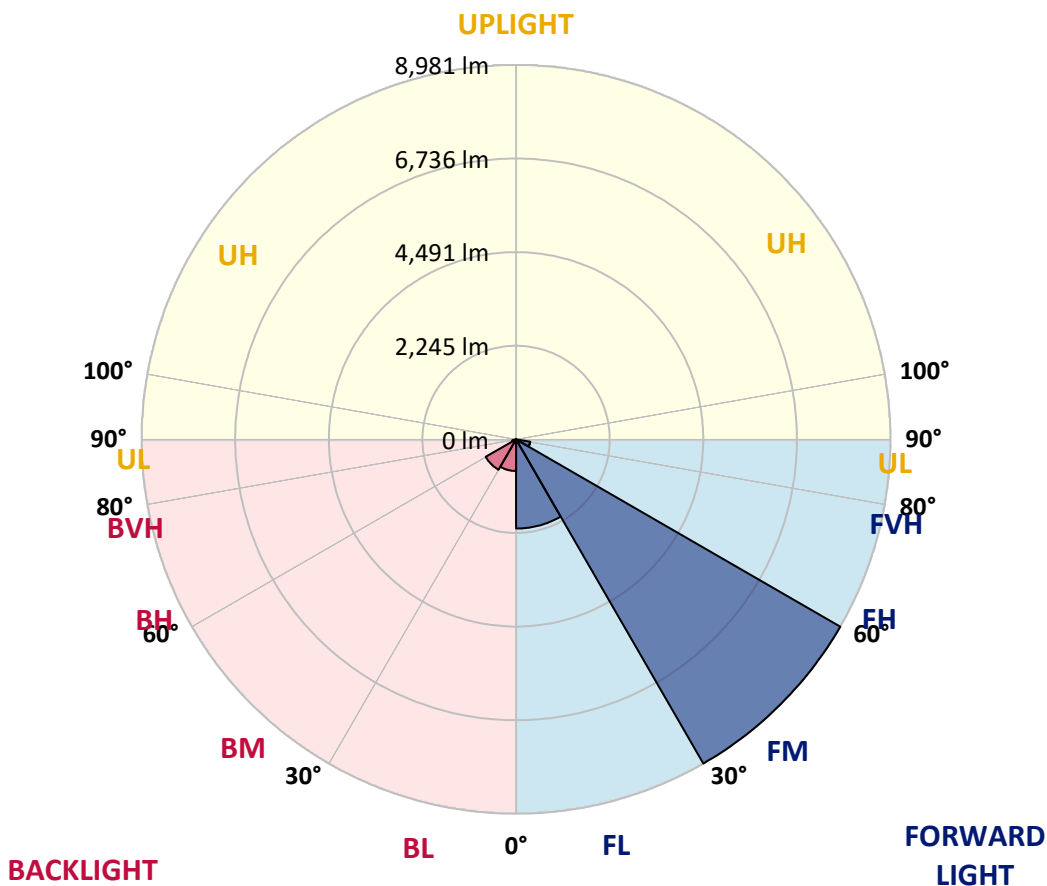
REPORT NUMBER: P635987

CATALOG NUMBER: GWS-SA3E-830-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.6	16.3			
FM (30°-60°)	8981.2	68.3			
FH (60°-80°)	344.4	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	758.8	5.8	B2/1000		
BM (30°-60°)	840.7	6.4	B1/1000		
BH (60°-80°)	89.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.8	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	4542.2	4578.5	4568.5	4520.9	4469.5	4433.2	4376.9	4359.3	4231.6	4142.7	4048.8
5°	5090.7	5102.0	5089.4	5031.8	4941.7	4855.2	4762.6	4708.7	4494.6	4301.7	4105.1
7.5°	5222.2	5208.4	5232.2	5261.0	5248.5	5210.9	5113.2	5054.4	4798.9	4484.6	4186.5
10°	4811.4	4780.1	4869.0	5018.1	5174.6	5351.2	5326.1	5331.1	5095.7	4715.0	4293.0
12.5°	4266.7	4254.1	4320.5	4493.3	4800.1	5200.9	5297.3	5458.9	5367.4	4964.2	4414.4
15°	4027.5	4033.7	4073.8	4182.8	4403.2	4901.6	5133.3	5425.1	5610.4	5205.9	4548.4
17.5°	4063.8	4086.3	4085.1	4121.4	4255.4	4654.9	4925.4	5318.6	5798.2	5483.9	4702.5
20°	4310.5	4333.0	4299.2	4271.7	4316.8	4592.3	4816.4	5210.9	5924.7	5764.4	4865.3
22.5°	4679.9	4706.2	4626.1	4547.2	4518.4	4695.0	4857.8	5167.1	6021.2	6021.2	5010.5
25°	5127.0	5163.3	5039.3	4899.1	4818.9	4911.6	5034.3	5266.0	6120.1	6251.6	5109.5
27.5°	5626.7	5627.9	5521.5	5363.7	5213.4	5224.7	5298.6	5488.9	6229.0	6499.5	5187.1
30°	6189.0	6192.7	6051.2	5862.1	5673.0	5621.7	5684.3	5828.3	6455.7	6811.4	5294.8
32.5°	6915.3	6932.9	6730.0	6452.0	6206.5	6110.1	6146.4	6297.9	6816.4	7202.1	5456.4
35°	7897.1	7915.9	7616.6	7249.7	6859.0	6713.7	6750.0	6902.8	7338.6	7756.9	5714.3
37.5°	8866.4	8891.5	8588.4	8246.5	7710.5	7470.1	7507.7	7652.9	8122.6	8523.3	6127.6
40°	9536.4	9570.2	9476.3	9245.9	8748.7	8433.1	8478.2	8530.8	8985.4	9440.0	6663.6
42.5°	9889.6	9937.2	9977.2	10095.0	9833.2	9569.0	9492.6	9496.4	9863.3	10374.2	7220.9
45°	9910.9	9957.2	10162.6	10617.2	10816.3	10761.2	10622.2	10528.3	10533.3	10996.6	7569.0
47.5°	9222.1	9308.5	9693.0	10583.4	11332.3	11789.4	11719.2	11496.3	10815.0	11038.0	7531.5
50°	7590.3	7675.5	8374.3	9655.4	10956.6	12200.1	12489.4	12190.1	10631.0	10523.3	7144.5
52.5°	5512.7	5521.5	5974.8	7471.3	9433.7	11442.5	12123.7	12094.9	10350.4	9899.6	6616.0
55°	2618.6	2587.3	3097.0	4216.6	6524.6	9254.7	10403.0	10728.6	9952.2	9448.8	6206.5
57.5°	762.7	777.7	1004.4	1645.6	3263.5	5914.7	7124.5	7730.6	8168.9	7768.1	4813.9
60°	341.9	343.1	382.0	500.9	1087.0	2751.3	3683.1	4433.2	4884.1	4525.9	2388.2
62.5°	248.0	249.2	264.2	283.0	369.4	931.7	1381.3	1840.9	1874.7	1227.3	604.9
65°	206.6	206.6	209.1	209.1	221.7	333.1	419.5	541.0	455.8	338.1	236.7
67.5°	166.6	167.8	170.3	170.3	166.6	166.6	180.3	197.9	211.6	261.7	217.9
70°	130.2	129.0	129.0	130.2	126.5	107.7	116.5	132.7	145.3	204.1	189.1
72.5°	101.4	102.7	101.4	96.4	87.7	63.9	68.9	86.4	92.7	127.7	127.7
75°	76.4	77.6	72.6	55.1	36.3	20.0	26.3	42.6	53.8	62.6	46.3
77.5°	10.0	10.0	7.5	7.5	6.3	7.5	7.5	10.0	15.0	15.0	11.3
80°	1.3	1.3	1.3	2.5	3.8	5.0	5.0	5.0	5.0	6.3	6.3
82.5°	1.3	1.3	1.3	1.3	3.8	3.8	5.0	5.0	5.0	5.0	5.0
85°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	5.0	5.0	5.0	5.0
87.5°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	3.8	5.0	5.0	5.0
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°	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1	3986.1
2.5°	3992.4	3919.8	3832.1	3772.0	3686.8	3630.5	3550.3	3496.5	3450.1	3413.8	3433.9
5°	3993.7	3878.4	3699.4	3546.6	3380.0	3227.2	3063.2	2934.2	2817.7	2765.1	2793.9
7.5°	4018.7	3853.4	3579.1	3307.4	2988.0	2672.5	2376.9	2136.5	2017.5	1961.1	1978.7
10°	4067.5	3842.1	3445.1	2994.3	2475.8	2045.0	1758.3	1595.5	1529.1	1494.0	1500.3
12.5°	4112.6	3834.6	3271.1	2582.3	1953.6	1586.7	1437.7	1415.1	1428.9	1430.2	1428.9
15°	4174.0	3820.8	3055.7	2159.0	1562.9	1371.3	1375.0	1407.6	1440.2	1450.2	1447.7
17.5°	4239.1	3799.5	2777.6	1753.2	1326.2	1308.7	1352.5	1396.3	1428.9	1433.9	1435.2
20°	4306.7	3755.7	2460.8	1431.4	1216.0	1261.1	1309.9	1342.5	1366.3	1373.8	1376.3
22.5°	4338.0	3663.0	2095.1	1201.0	1142.1	1202.2	1238.5	1281.1	1288.6	1261.1	1266.1
25°	4321.8	3506.5	1738.2	1045.7	1068.2	1128.3	1182.2	1160.9	1129.6	1109.6	1115.8
27.5°	4270.4	3298.6	1388.8	931.7	989.3	1065.7	1072.0	1048.2	1043.2	1026.9	1031.9
30°	4215.3	3059.4	1117.1	840.3	909.2	989.3	970.5	979.3	980.6	961.8	968.0
32.5°	4181.5	2809.0	889.1	778.9	857.8	872.9	910.4	928.0	929.2	885.4	892.9
35°	4192.8	2562.2	752.6	728.9	810.3	806.5	859.1	869.1	796.5	736.4	742.6
37.5°	4284.2	2334.3	675.0	690.0	727.6	756.4	796.5	730.1	713.8	686.3	690.0
40°	4454.5	2140.2	628.7	666.2	671.2	717.6	656.2	665.0	666.2	648.7	652.5
42.5°	4653.6	1978.7	601.1	652.5	639.9	647.5	586.1	603.6	622.4	614.9	616.1
45°	4753.8	1820.9	577.3	604.9	608.6	537.2	523.5	542.3	566.0	569.8	571.1
47.5°	4664.9	1670.6	552.3	536.0	561.0	489.7	473.4	479.6	507.2	522.2	524.7
50°	4393.1	1497.8	514.7	474.6	460.9	439.6	424.5	425.8	457.1	483.4	488.4
52.5°	4011.2	1317.4	453.3	402.0	370.7	387.0	390.7	383.2	412.0	438.3	443.3
55°	3640.5	1092.0	359.4	326.9	298.1	333.1	343.1	333.1	341.9	359.4	360.7
57.5°	2563.5	617.4	275.5	270.5	246.7	285.5	301.8	286.8	271.8	283.0	285.5
60°	1188.5	323.1	211.6	211.6	205.4	245.5	273.0	251.7	222.9	227.9	231.7
62.5°	371.9	204.1	155.3	146.5	167.8	209.1	231.7	210.4	176.6	176.6	181.6
65°	210.4	175.3	122.7	112.7	136.5	167.8	181.6	159.0	129.0	126.5	126.5
67.5°	195.4	166.6	109.0	91.4	96.4	107.7	112.7	97.7	88.9	87.7	88.9
70°	161.5	139.0	87.7	62.6	58.9	57.6	60.1	56.4	53.8	55.1	58.9
72.5°	100.2	83.9	55.1	37.6	32.6	31.3	31.3	31.3	30.1	30.1	30.1
75°	36.3	31.3	25.0	18.8	16.3	15.0	15.0	16.3	15.0	13.8	12.5
77.5°	11.3	10.0	10.0	10.0	8.8	7.5	6.3	6.3	5.0	3.8	3.8
80°	6.3	6.3	6.3	6.3	5.0	5.0	3.8	2.5	1.3	1.3	0.0
82.5°	6.3	6.3	6.3	5.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0
85°	5.0	5.0	5.0	5.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.8	2.5	1.3	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)