

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: P643947

Luminaire Tested: GWS-SA6F-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30950.3 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

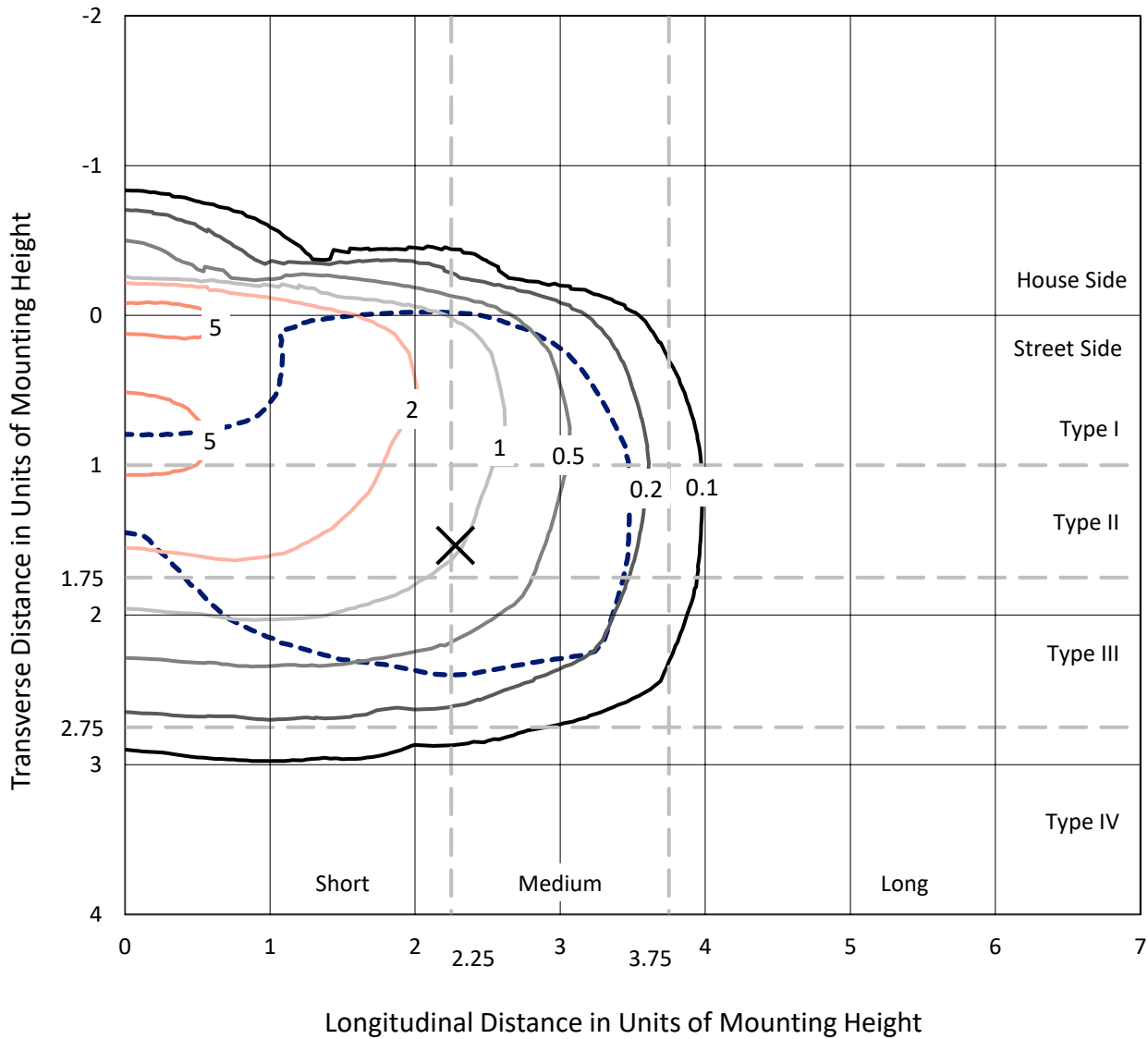
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643947
 CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

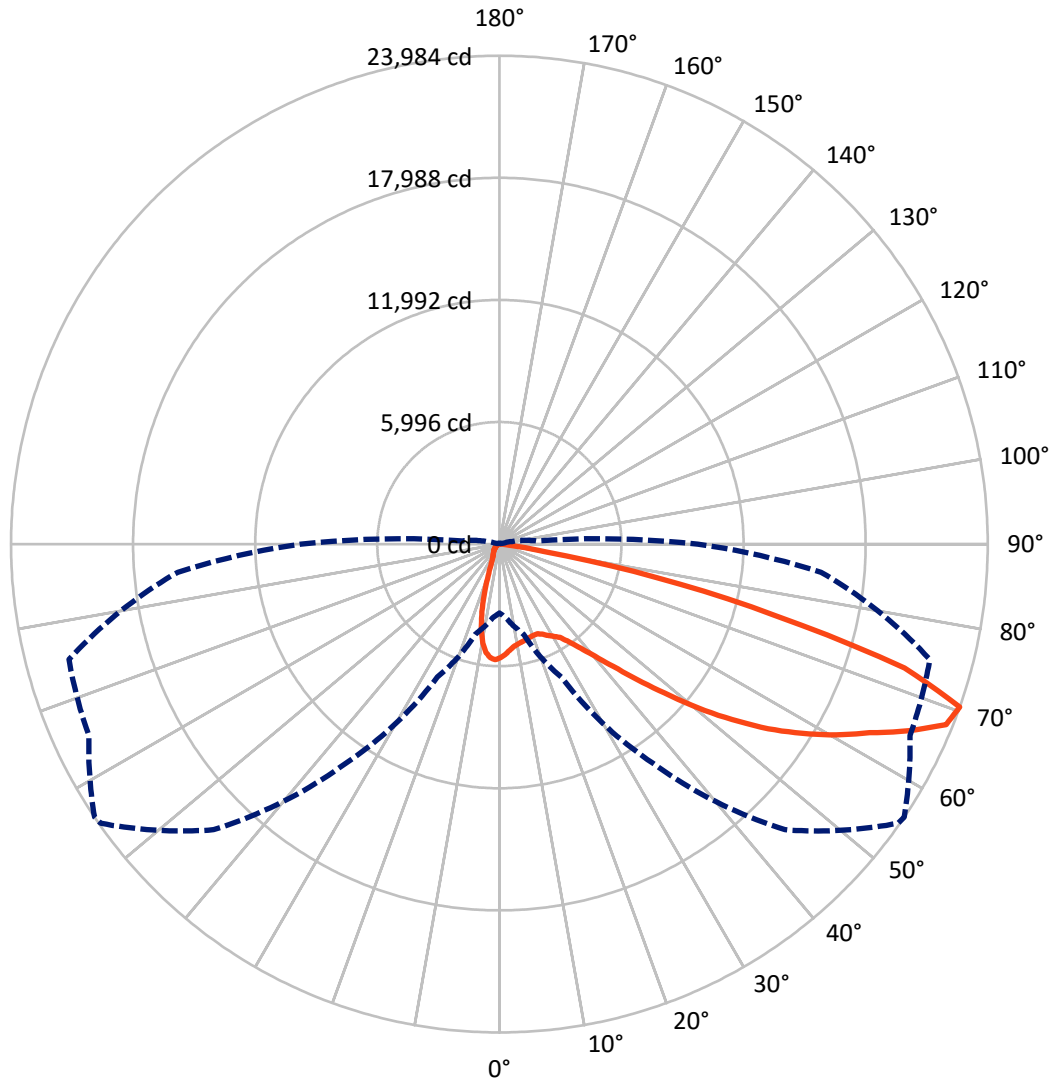
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P643947
CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P643947
 CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-HSS

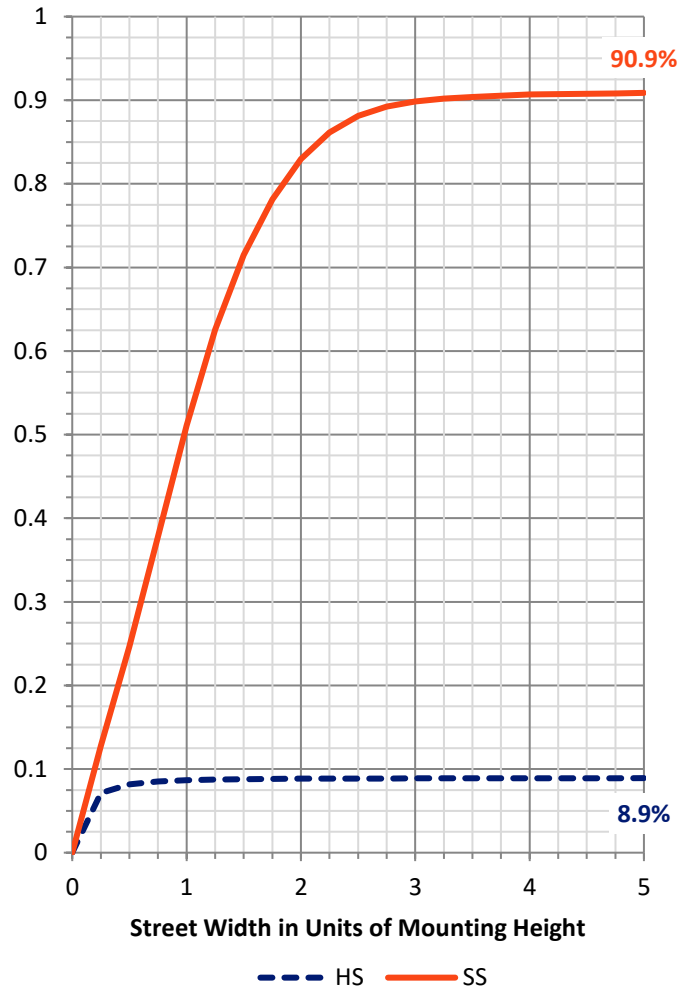
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.9	0.0	2779.9
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	28170.4	0.0	28170.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	30950.3	0.0	30950.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.1	1.5
10°-20°	1077.7	3.5
20°-30°	1707.0	5.5
30°-40°	2943.7	9.5
40°-50°	4971.0	16.1
50°-60°	7304.0	23.6
60°-70°	8659.2	28.0
70°-80°	3692.6	11.9
80°-90°	115.9	0.4
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°	30950.3	100.0
0°-180°	30950.3	100.0

Coefficient of Utilization



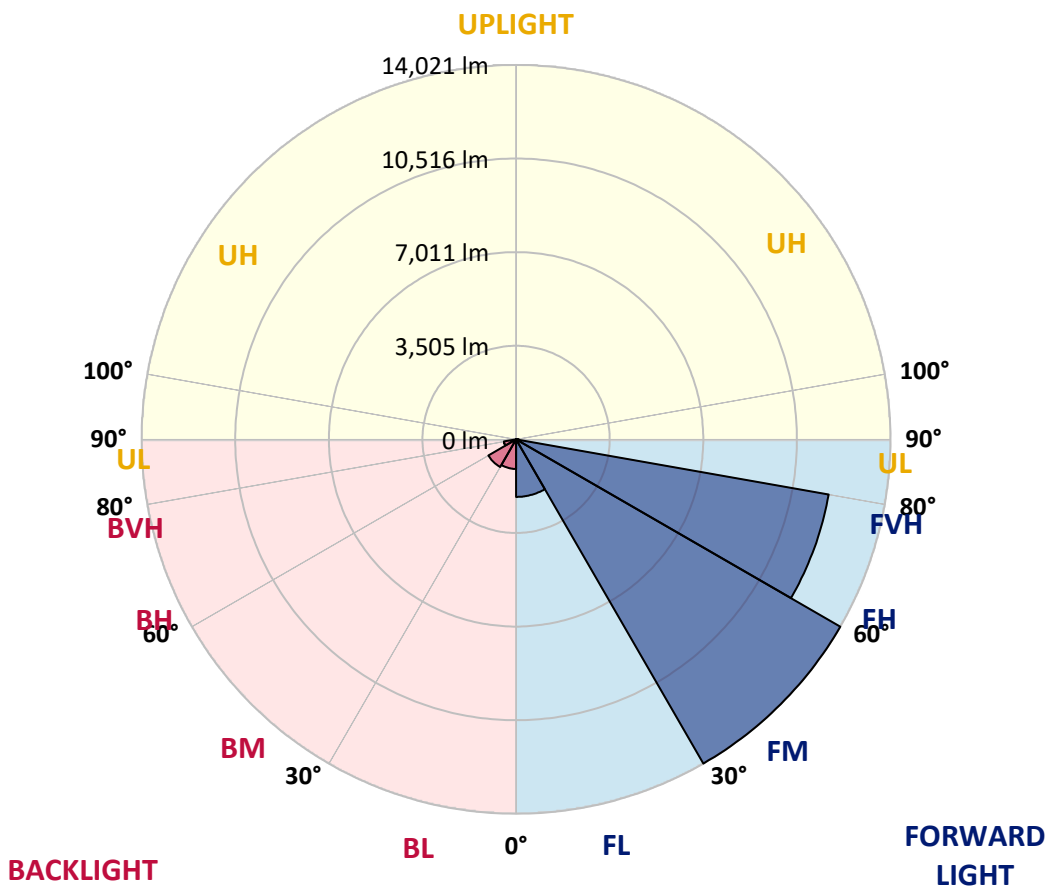
REPORT NUMBER: P643947

CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2156.7	7.0			
FM (30°-60°)	14021.3	45.3			
FH (60°-80°)	11888.2	38.4			G4/12000
FVH (80°-90°)	104.2	0.3			G2/225
BL (0°-30°)	1107.1	3.6	B3/2500		
BM (30°-60°)	1197.4	3.9	B2/2500		
BH (60°-80°)	463.7	1.5	B1/500		G1/500
BVH (80°-90°)	11.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





REPORT NUMBER: P643947

CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7
2.5°	5195.2	5186.7	5192.4	5234.9	5314.2	5351.1	5413.4	5424.8	5475.8	5541.0	5566.5
5°	4857.9	4829.6	4843.7	4903.3	4994.0	5096.0	5212.2	5243.4	5370.9	5515.5	5623.2
7.5°	4549.0	4517.8	4551.8	4645.3	4772.9	4883.4	5056.3	5076.2	5280.2	5535.3	5730.9
10°	4064.3	4072.8	4140.8	4305.2	4500.8	4730.4	4962.8	4991.1	5243.4	5600.5	5903.8
12.5°	3693.0	3673.2	3746.9	3933.9	4208.9	4543.3	4891.9	4928.8	5246.2	5699.7	6124.8
15°	3520.1	3514.5	3545.7	3681.7	3948.1	4342.1	4826.7	4874.9	5283.1	5790.4	6334.6
17.5°	3525.8	3517.3	3514.5	3593.8	3792.2	4191.9	4755.9	4818.2	5314.2	5889.6	6555.6
20°	3772.4	3732.7	3661.9	3625.0	3744.1	4095.5	4707.7	4778.6	5359.6	5994.5	6790.9
22.5°	4288.2	4302.4	4112.5	3914.1	3857.4	4106.8	4702.0	4784.2	5458.8	6158.8	7080.0
25°	5319.9	5297.2	4945.8	4500.8	4191.9	4237.2	4801.2	4900.4	5654.3	6394.1	7352.1
27.5°	6612.3	6632.2	6150.3	5441.8	4795.6	4506.5	4982.6	5081.8	5881.1	6541.5	7533.5
30°	8020.9	8001.1	7485.3	6700.2	5651.5	4954.3	5164.0	5251.9	5994.5	6620.8	7720.5
32.5°	9353.0	9307.7	8797.5	7975.6	6742.7	5660.0	5413.4	5464.4	6144.7	6793.7	7972.8
35°	10489.6	10486.7	10041.8	9166.0	7865.1	6544.3	5841.4	5883.9	6425.3	7068.6	8344.1
37.5°	11663.0	11623.3	11124.5	10325.2	9018.6	7513.6	6496.1	6479.1	6867.4	7473.9	8800.4
40°	12626.6	12601.1	12218.5	11450.4	10217.5	8585.0	7289.7	7238.7	7391.7	8035.1	9435.2
42.5°	13340.8	13343.7	13224.6	12757.0	11487.2	9823.5	8287.4	8208.0	8205.2	8882.6	10274.2
45°	13882.2	13919.0	14097.6	14026.7	12986.6	11266.2	9565.6	9483.4	9344.5	9982.3	11235.0
47.5°	14134.4	14182.6	14721.1	15004.6	14298.8	12697.5	11087.6	10914.7	10642.6	11444.7	12309.2
50°	14108.9	14194.0	14945.0	15806.6	15489.2	14148.6	12745.7	12663.5	12218.5	12992.2	13372.0
52.5°	13530.7	13712.1	14959.2	16294.1	16404.7	15486.4	14460.4	14307.3	14091.9	14607.8	14369.7
55°	11960.6	12181.6	14361.2	16450.0	17118.9	16654.1	16138.3	16013.5	15656.4	16132.6	15239.8
57.5°	11107.5	11297.3	13102.8	16373.5	17725.4	17733.9	17631.9	17529.9	17235.1	17640.4	16260.1
60°	10594.4	10784.3	12431.0	16092.9	18275.3	18873.3	19034.9	19023.5	18598.4	19355.1	17456.2
62.5°	9843.4	10104.1	11731.0	15364.5	18666.4	19995.7	20483.2	20406.6	19933.3	21140.7	18640.9
65°	8327.0	8553.8	10296.9	14162.8	18436.8	20925.3	22053.3	22093.0	21546.0	22821.4	19576.2
67.5°	5838.6	6005.8	7737.5	11640.3	16878.0	21231.4	23660.4	23657.5	22725.1	23683.0	19162.4
70°	3384.1	3613.7	4571.7	7196.2	13131.1	19839.8	23901.3	23983.5	22246.1	21883.3	15857.7
72.5°	1309.4	1499.3	2590.5	3823.4	6847.6	15197.3	20559.7	20800.6	18618.2	16880.8	11036.6
75°	391.1	436.5	1218.7	2035.0	2749.2	7340.7	13919.0	13987.1	12771.2	10529.3	5657.2
77.5°	291.9	323.1	532.8	1028.8	963.6	2224.9	7201.8	7865.1	6779.5	3761.1	1558.8
80°	198.4	235.2	379.8	501.7	357.1	592.4	2023.7	2222.1	2069.0	844.6	391.1
82.5°	87.9	113.4	269.3	252.2	130.4	170.1	623.5	663.2	428.0	255.1	136.0
85°	8.5	11.3	102.0	110.5	48.2	39.7	130.4	130.4	93.5	87.9	56.7
87.5°	0.0	0.0	2.8	5.7	5.7	8.5	11.3	14.2	17.0	22.7	28.3
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: P643947

CATALOG NUMBER: GWS-SA6F-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7	5580.7
2.5°	5631.7	5597.7	5640.2	5674.2	5682.7	5620.3	5583.5	5529.6	5518.3	5521.1	5507.0
5°	5708.2	5691.2	5722.4	5685.5	5589.2	5407.8	5251.9	5079.0	4985.5	4931.6	4925.9
7.5°	5849.9	5841.4	5807.4	5640.2	5339.7	4937.3	4549.0	4169.2	3933.9	3848.9	3834.7
10°	6059.6	6042.6	5903.8	5507.0	4866.4	4092.7	3440.8	2896.6	2565.0	2468.6	2349.6
12.5°	6300.6	6266.5	5963.3	5220.7	4152.2	3080.8	2267.4	1658.0	1371.8	1286.8	1286.8
15°	6533.0	6459.3	5929.3	4747.4	3273.6	2003.8	1266.9	958.0	870.1	847.4	847.4
17.5°	6771.0	6629.3	5796.1	4101.2	2261.7	1184.7	844.6	785.1	773.8	776.6	779.4
20°	6994.9	6773.9	5560.8	3324.6	1442.6	827.6	756.7	742.6	736.9	742.6	739.7
22.5°	7238.7	6907.1	5203.7	2477.1	938.1	745.4	719.9	708.6	702.9	711.4	711.4
25°	7479.6	7003.4	4730.4	1666.5	745.4	694.4	680.2	668.9	663.2	666.1	666.1
27.5°	7604.3	6966.6	4109.7	1062.8	668.9	643.4	629.2	615.0	606.5	603.7	606.5
30°	7689.3	6853.2	3350.1	756.7	606.5	575.4	561.2	549.8	527.2	513.0	518.7
32.5°	7822.5	6739.9	2525.3	634.9	555.5	507.3	484.7	456.3	425.1	411.0	411.0
35°	7981.3	6584.0	1771.4	572.5	501.7	450.6	408.1	360.0	323.1	311.8	311.8
37.5°	8191.0	6436.6	1179.1	530.0	456.3	402.5	342.9	286.3	246.6	240.9	238.1
40°	8505.6	6311.9	830.4	498.8	416.6	351.4	280.6	221.1	192.7	184.2	184.2
42.5°	8913.7	6184.3	657.5	467.7	382.6	303.3	223.9	175.7	153.0	147.4	144.5
45°	9418.2	6034.1	572.5	439.3	348.6	252.2	178.6	147.4	130.4	124.7	124.7
47.5°	9965.2	5830.1	532.8	402.5	308.9	204.1	150.2	127.5	119.0	116.2	113.4
50°	10503.8	5555.1	498.8	368.5	263.6	167.2	130.4	116.2	110.5	107.7	107.7
52.5°	10974.2	5234.9	456.3	328.8	215.4	144.5	116.2	107.7	102.0	96.4	93.5
55°	11376.7	4886.3	402.5	283.4	175.7	127.5	107.7	99.2	93.5	87.9	85.0
57.5°	11895.4	4687.9	323.1	229.6	144.5	113.4	99.2	90.7	85.0	76.5	76.5
60°	12470.7	4543.3	240.9	181.4	124.7	104.9	90.7	82.2	76.5	68.0	68.0
62.5°	12932.7	4327.9	189.9	147.4	107.7	93.5	82.2	73.7	68.0	59.5	59.5
65°	13108.4	3882.9	155.9	116.2	87.9	82.2	73.7	68.0	59.5	51.0	51.0
67.5°	12314.8	2993.0	130.4	93.5	73.7	70.9	65.2	62.4	51.0	45.3	42.5
70°	9752.7	1825.3	107.7	76.5	62.4	59.5	59.5	53.9	45.3	42.5	39.7
72.5°	6683.2	941.0	87.9	62.4	53.9	53.9	51.0	48.2	42.5	39.7	39.7
75°	3472.0	314.6	68.0	48.2	42.5	45.3	45.3	42.5	39.7	39.7	36.8
77.5°	994.8	141.7	51.0	36.8	34.0	34.0	36.8	36.8	36.8	34.0	34.0
80°	257.9	82.2	36.8	28.3	28.3	28.3	28.3	31.2	34.0	31.2	31.2
82.5°	104.9	45.3	25.5	22.7	22.7	22.7	22.7	25.5	28.3	28.3	28.3
85°	65.2	22.7	19.8	19.8	19.8	17.0	17.0	19.8	19.8	22.7	22.7
87.5°	39.7	17.0	17.0	17.0	17.0	14.2	14.2	14.2	14.2	14.2	14.2
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)