

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: P637754

Luminaire Tested: GWS-SA4D-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14379.7 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

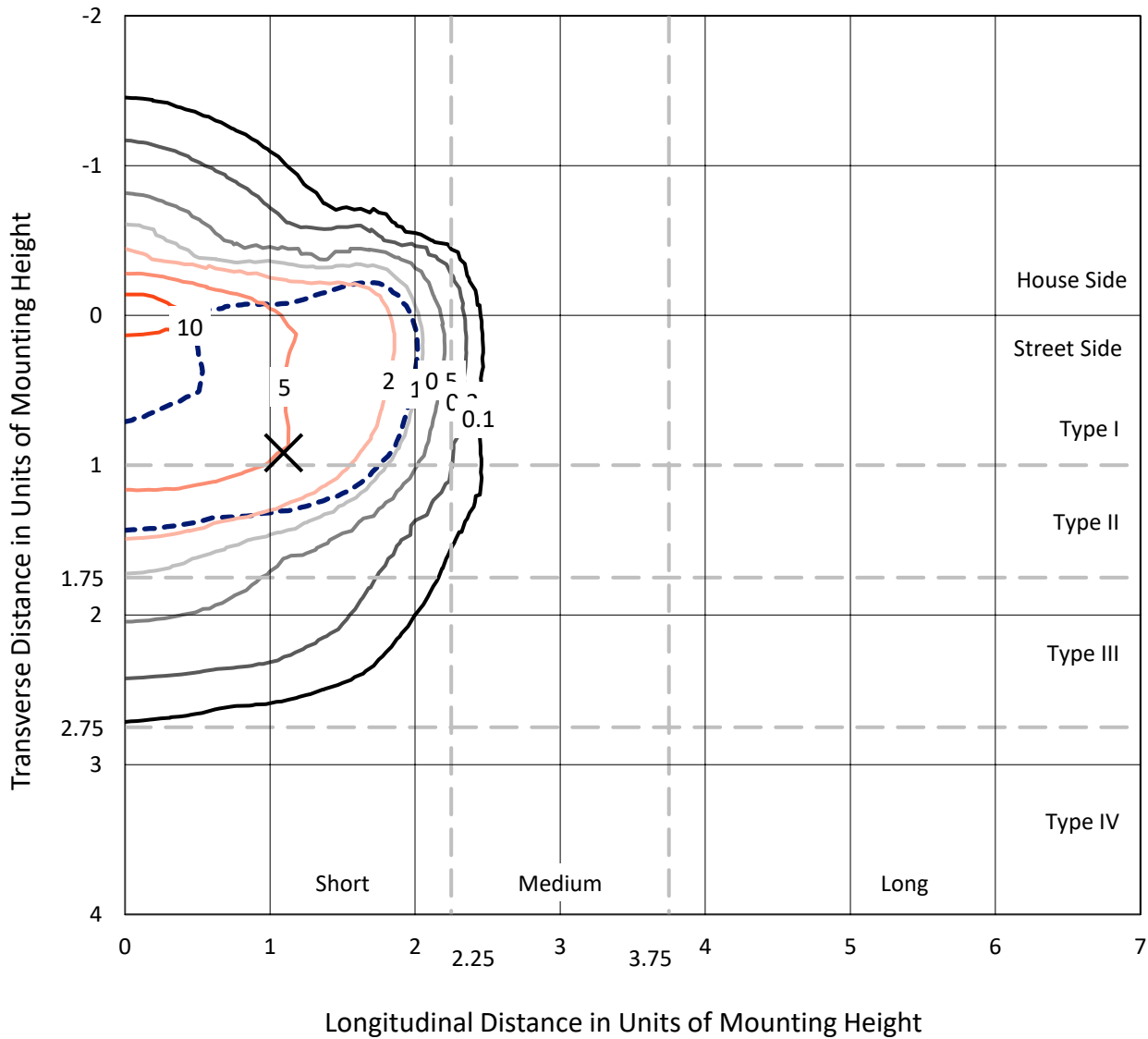
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637754
 CATALOG NUMBER: GWS-SA4D-740-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

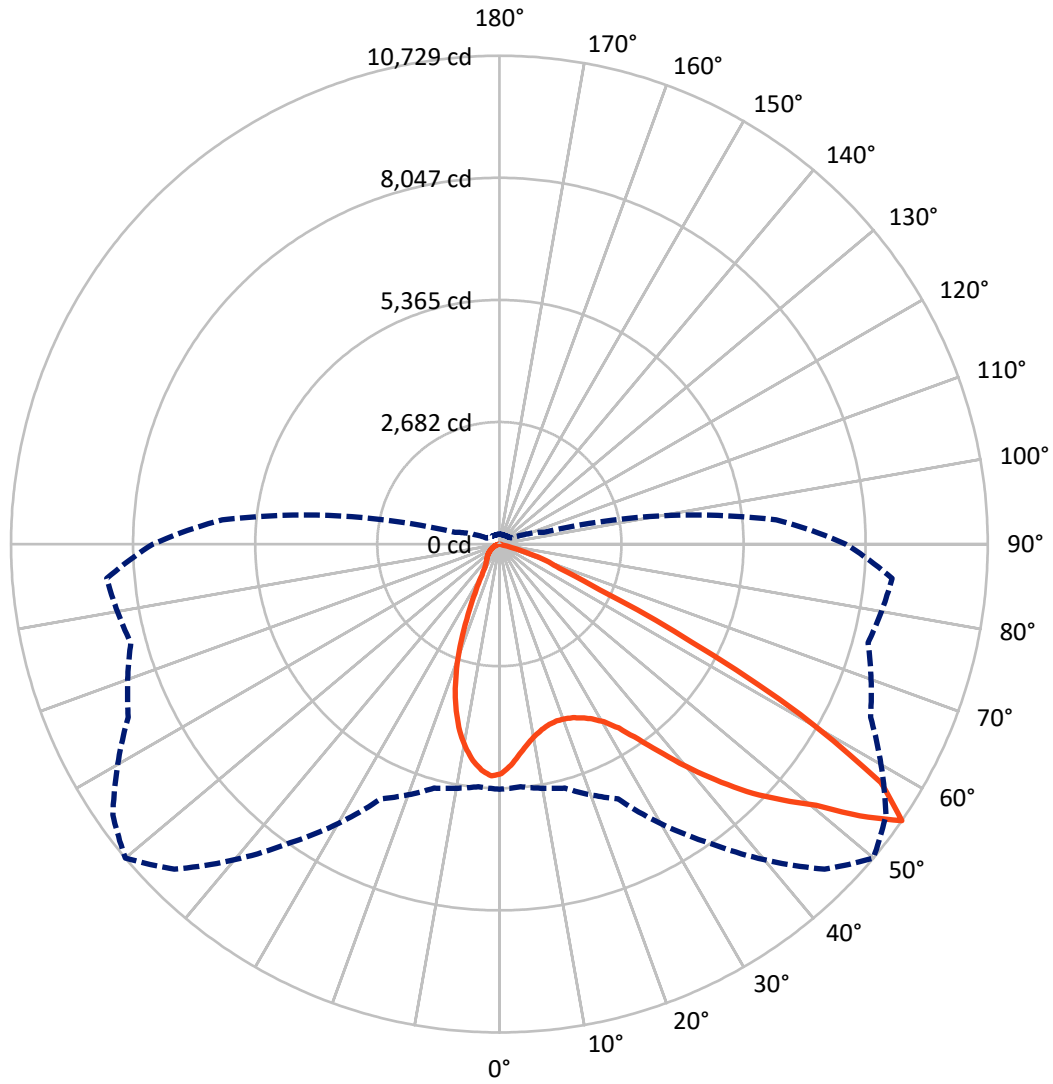
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

REPORT NUMBER: P637754
CATALOG NUMBER: GWS-SA4D-740-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P637754

CATALOG NUMBER: GWS-SA4D-740-U-SL2-W-GRSBK

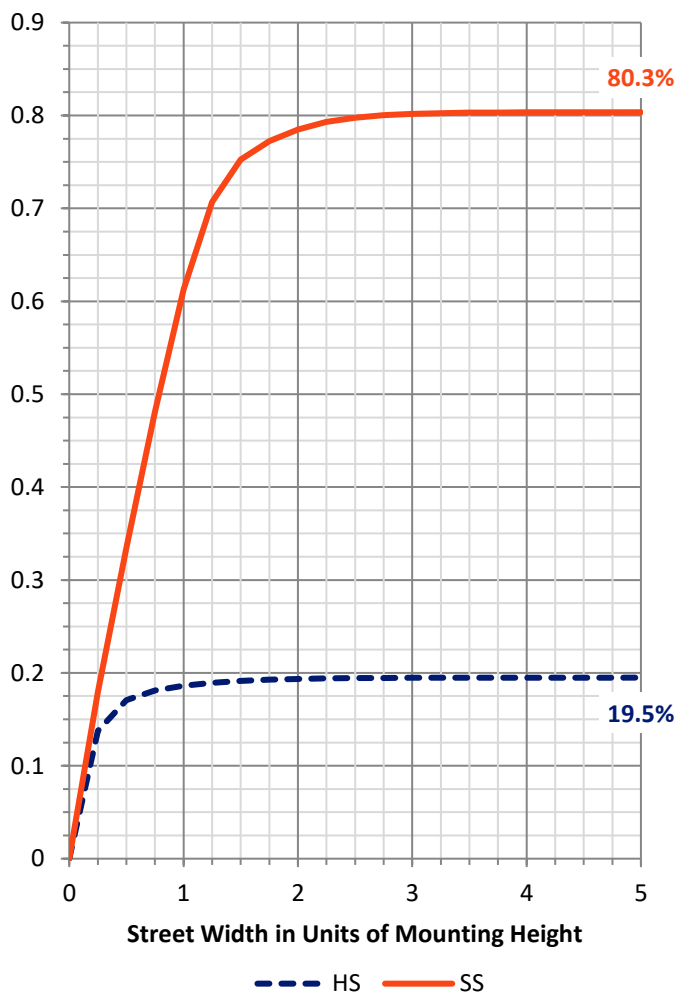
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2833.5	0.0	2833.5
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	11546.2	0.0	11546.2
	% Fixture	80.3	0.0	80.3
Total	Lumens	14379.7	0.0	14379.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.1	3.1
10°-20°	1090.3	7.6
20°-30°	1537.9	10.7
30°-40°	2275.9	15.8
40°-50°	3283.3	22.8
50°-60°	3872.9	26.9
60°-70°	1727.6	12.0
70°-80°	148.5	1.0
80°-90°	0.1	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°	14379.7	100.0
0°-180°	14379.7	100.0

Coefficient of Utilization



REPORT NUMBER: P637754

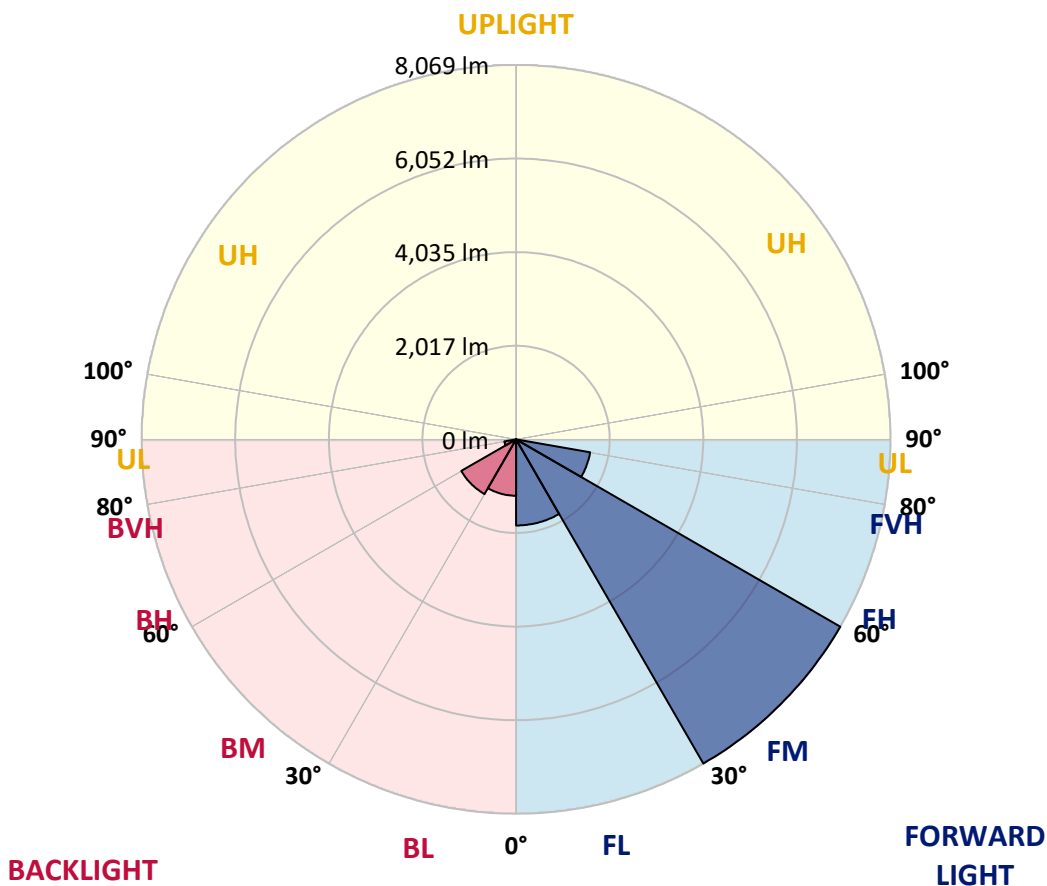
CATALOG NUMBER: GWS-SA4D-740-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.5	12.9			
FM (30°-60°)	8069.4	56.1			
FH (60°-80°)	1620.3	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1214.9	8.4	B3/2500		
BM (30°-60°)	1362.7	9.5	B2/2500		
BH (60°-80°)	255.8	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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





REPORT NUMBER: P637754

CATALOG NUMBER: GWS-SA4D-740-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2
2.5°	4687.1	4690.6	4692.4	4739.7	4757.3	4827.5	4864.4	4883.7	4934.6	4994.3	5043.4
5°	4372.9	4367.6	4376.4	4436.1	4474.7	4578.2	4634.4	4673.0	4785.4	4925.8	5043.4
7.5°	4099.0	4109.5	4120.1	4185.0	4243.0	4355.3	4436.1	4494.0	4650.2	4859.1	5057.5
10°	3905.9	3905.9	3921.7	3995.4	4063.9	4202.6	4283.3	4357.1	4543.1	4799.4	5073.3
12.5°	3763.7	3765.5	3784.8	3869.0	3948.0	4092.0	4176.2	4248.2	4453.6	4739.7	5076.8
15°	3697.0	3691.7	3707.5	3797.1	3884.8	4020.0	4107.8	4178.0	4390.4	4706.4	5094.4
17.5°	3679.4	3675.9	3688.2	3776.0	3865.5	3997.2	4083.2	4153.4	4381.6	4716.9	5147.0
20°	3730.4	3723.3	3718.1	3793.6	3877.8	4007.7	4097.2	4176.2	4423.8	4774.9	5227.8
22.5°	3851.5	3851.5	3839.2	3876.1	3932.2	4049.9	4142.9	4246.5	4534.4	4890.7	5347.1
25°	4074.4	4056.9	4034.1	4049.9	4042.8	4116.6	4227.2	4371.1	4743.3	5082.1	5492.8
27.5°	4329.0	4344.8	4306.1	4307.9	4246.5	4220.1	4348.3	4566.0	5054.0	5352.4	5708.8
30°	4674.8	4662.5	4664.3	4659.0	4516.8	4392.2	4530.8	4820.5	5445.4	5764.9	5989.6
32.5°	4945.1	4962.7	5020.6	5054.0	4867.9	4667.8	4815.2	5166.3	5891.3	6235.4	6333.7
35°	5231.3	5262.9	5380.5	5489.3	5333.1	5103.1	5261.1	5624.5	6310.9	6700.6	6728.7
37.5°	5533.2	5596.4	5736.9	5928.2	5903.6	5700.0	5843.9	6163.4	6640.9	6981.5	7055.2
40°	5879.0	5940.5	6170.4	6446.1	6504.0	6458.3	6505.7	6691.8	6858.6	6993.8	7195.6
42.5°	6258.2	6342.5	6633.9	7002.5	7220.2	7260.6	7150.0	7130.7	6953.4	6853.3	7165.8
45°	6705.9	6804.2	7134.2	7611.7	7957.5	8011.9	7820.6	7573.1	7013.1	6749.8	7076.3
47.5°	7207.9	7301.0	7629.2	8203.3	8717.6	8738.7	8405.2	8006.7	7190.4	6869.1	7144.7
50°	7376.5	7434.4	7718.8	8392.9	9340.8	9502.3	9019.6	8494.7	7546.7	7220.2	7478.3
52.5°	6797.1	6820.0	7067.5	7748.6	9214.4	10251.9	9916.6	9223.2	8180.5	7755.6	7992.6
55°	5385.8	5348.9	5549.0	6174.0	8008.4	10099.2	10729.4	10367.8	8996.7	8384.1	8661.5
57.5°	3767.2	3723.3	3677.7	4100.8	5975.6	8561.4	9886.8	10527.5	9774.4	9007.3	9382.9
60°	3096.6	3054.5	2833.3	2638.5	3612.7	6147.6	7594.1	8800.1	9711.2	8975.7	9360.1
62.5°	2675.3	2650.7	2561.2	2296.1	2125.9	3509.2	4755.5	5910.6	7451.9	7048.2	7069.2
65°	2101.3	2094.3	2155.7	2183.8	1880.1	1941.5	2426.0	3072.1	4028.8	3798.8	3602.2
67.5°	1436.0	1420.2	1536.0	1888.9	1808.1	1532.5	1420.2	1432.5	1743.2	1065.6	846.1
70°	912.8	876.0	877.7	1170.9	1471.1	1209.5	1095.4	963.7	867.2	158.0	179.1
72.5°	584.6	561.7	482.8	528.4	681.1	589.8	595.1	512.6	342.3	84.3	98.3
75°	245.8	226.5	173.8	138.7	136.9	86.0	75.5	70.2	47.4	47.4	50.9
77.5°	1.8	0.0	0.0	1.8	3.5	1.8	1.8	3.5	7.0	10.5	12.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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: P637754
 CATALOG NUMBER: GWS-SA4D-740-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2	5045.2
2.5°	5073.3	5031.2	5078.6	5096.1	5094.4	5096.1	5045.2	5010.1	5008.3	4964.4	4943.4
5°	5092.6	5059.2	5094.4	5071.5	5017.1	4948.6	4857.4	4778.4	4743.3	4692.4	4667.8
7.5°	5129.5	5094.4	5089.1	4997.8	4862.6	4718.7	4557.2	4413.2	4336.0	4243.0	4248.2
10°	5155.8	5115.4	5047.0	4860.9	4636.2	4406.2	4165.7	3951.5	3816.4	3691.7	3670.7
12.5°	5166.3	5106.6	4946.9	4666.0	4350.0	4049.9	3697.0	3391.6	3180.9	3017.6	2994.8
15°	5185.6	5089.1	4818.7	4430.8	3997.2	3572.4	3123.0	2705.2	2426.0	2238.2	2254.0
17.5°	5215.5	5069.8	4674.8	4167.5	3618.0	3017.6	2410.2	1931.0	1674.7	1565.9	1567.6
20°	5257.6	5047.0	4516.8	3877.8	3163.3	2390.9	1685.2	1323.6	1251.6	1248.1	1242.9
22.5°	5313.8	5024.1	4348.3	3560.1	2624.4	1674.7	1121.7	1009.4	1039.2	1097.2	1107.7
25°	5380.5	4996.0	4160.4	3202.0	2036.3	1098.9	840.9	823.3	895.3	972.5	990.1
27.5°	5484.1	4982.0	3946.3	2794.7	1428.9	788.2	688.1	698.7	763.6	828.6	844.4
30°	5659.6	5008.3	3712.8	2338.3	918.1	628.5	596.9	612.7	647.8	681.1	695.2
32.5°	5898.4	5085.6	3486.3	1839.7	654.8	545.9	538.9	547.7	561.7	581.1	586.3
35°	6177.5	5219.0	3252.9	1316.6	540.7	498.6	491.5	491.5	498.6	502.1	503.8
37.5°	6407.4	5359.4	3033.4	876.0	484.5	461.7	451.2	445.9	444.1	447.6	449.4
40°	6507.5	5417.4	2794.7	637.2	444.1	428.3	412.5	396.7	396.7	409.0	410.8
42.5°	6437.3	5352.4	2519.1	526.6	416.0	393.2	368.6	354.6	361.6	373.9	377.4
45°	6288.1	5192.7	2215.4	465.2	388.0	358.1	330.0	321.2	328.3	344.1	347.6
47.5°	6263.5	5087.3	1852.0	424.8	358.1	328.3	298.4	289.7	298.4	310.7	314.2
50°	6507.5	5178.6	1448.3	389.7	330.0	296.7	272.1	263.3	268.6	275.6	279.1
52.5°	6953.4	5517.4	1169.1	356.4	296.7	265.1	249.3	238.7	238.7	245.8	247.5
55°	7611.7	6109.0	1009.4	317.7	258.1	240.5	226.5	215.9	215.9	219.4	221.2
57.5°	8370.0	6825.2	1046.3	266.8	226.5	217.7	205.4	196.6	200.1	200.1	200.1
60°	8264.7	6772.6	1120.0	224.7	200.1	196.6	186.1	182.6	191.3	184.3	180.8
62.5°	6087.9	4678.3	586.3	184.3	172.0	168.5	161.5	168.5	180.8	161.5	154.5
65°	2956.2	2264.5	235.2	151.0	145.7	142.2	138.7	149.2	156.2	126.4	119.4
67.5°	695.2	565.3	152.7	128.1	121.1	114.1	117.6	119.4	114.1	86.0	82.5
70°	180.8	177.3	119.4	107.1	96.6	89.5	89.5	87.8	75.5	54.4	50.9
72.5°	98.3	96.6	86.0	80.8	66.7	59.7	61.4	54.4	42.1	31.6	29.8
75°	49.2	52.7	49.2	45.6	36.9	33.4	33.4	29.8	21.1	12.3	12.3
77.5°	10.5	12.3	12.3	10.5	8.8	7.0	7.0	8.8	3.5	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	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)