

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: P640751

Luminaire Tested: GWS-SA5E-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23181.8 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

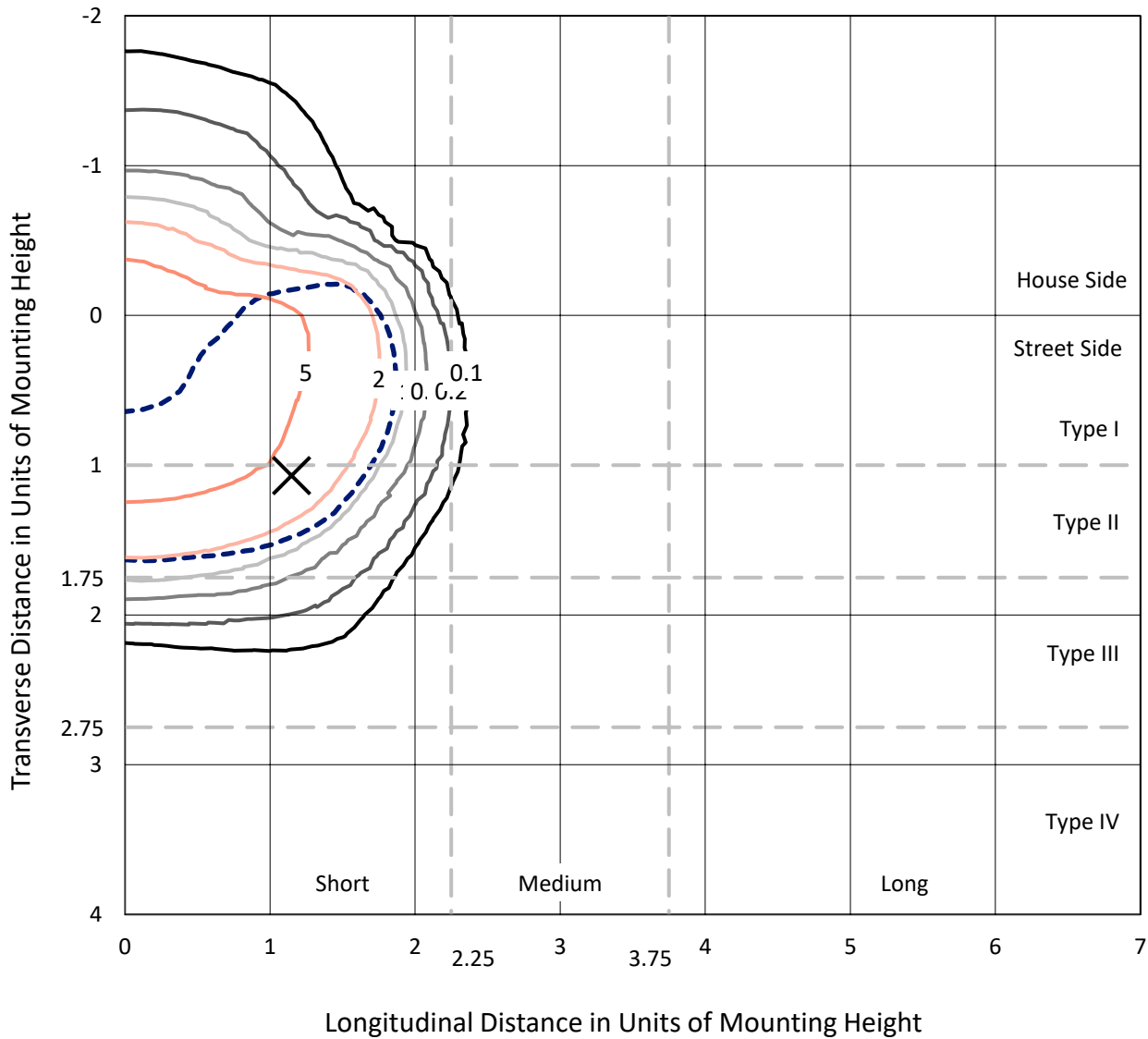
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640751
 CATALOG NUMBER: GWS-SA5E-740-U-T3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

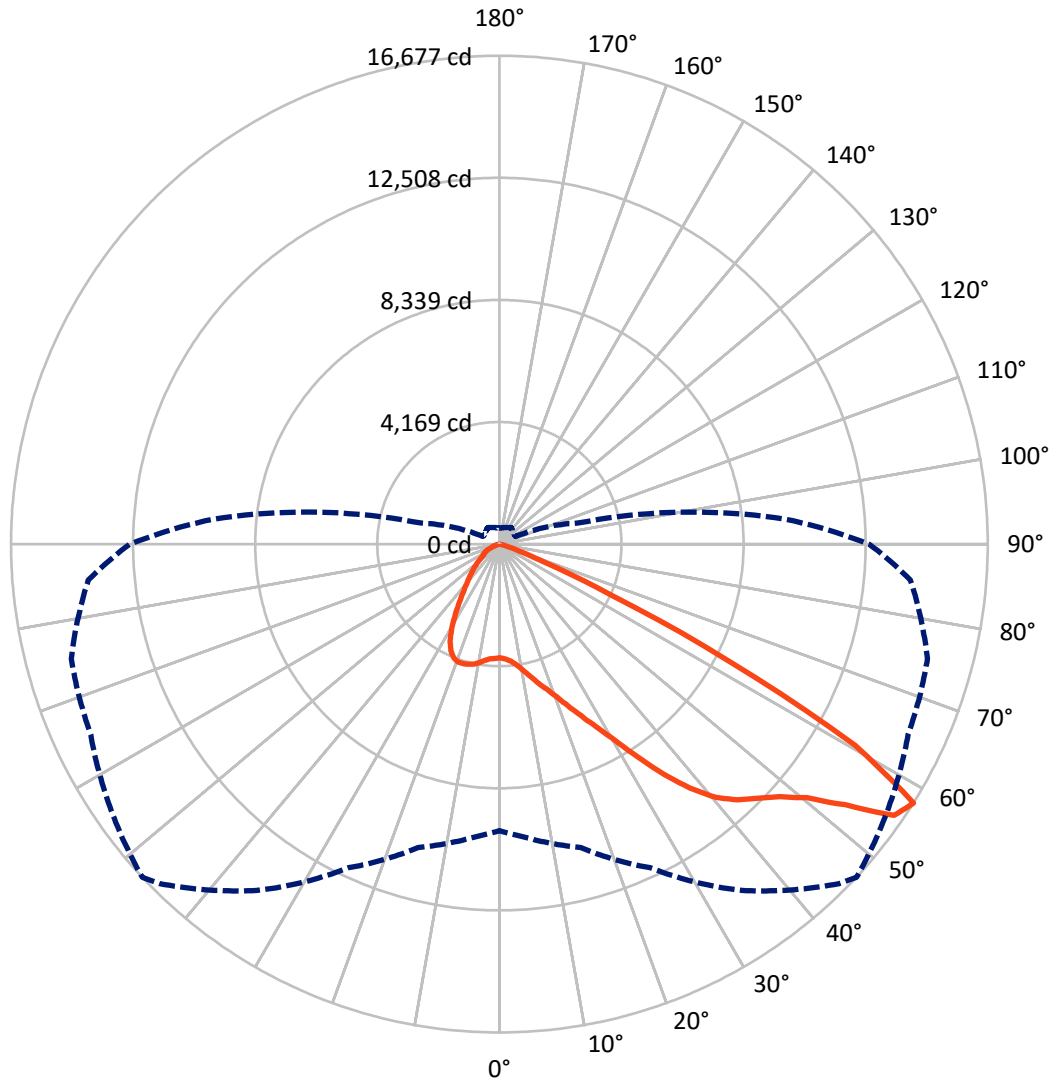
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

REPORT NUMBER: P640751
CATALOG NUMBER: GWS-SA5E-740-U-T3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640751

CATALOG NUMBER: GWS-SA5E-740-U-T3-W-GRSBK

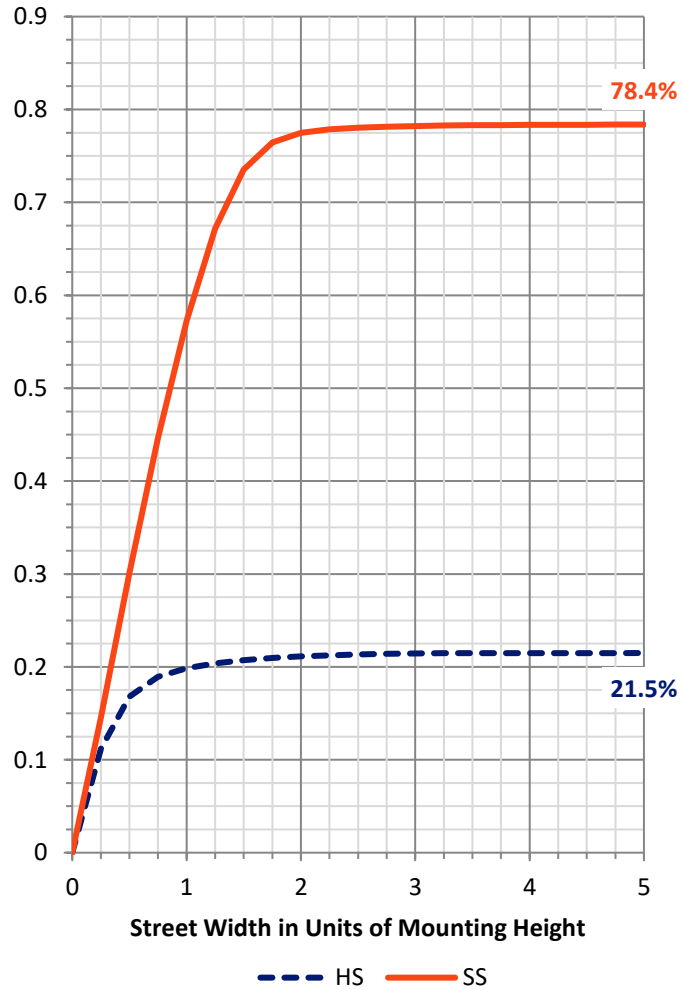
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5029.3	0.0	5029.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	18152.5	0.0	18152.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	23181.8	0.0	23181.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	1.7
10°-20°	1302.7	5.6
20°-30°	2418.9	10.4
30°-40°	3872.1	16.7
40°-50°	5660.2	24.4
50°-60°	6985.6	30.1
60°-70°	2334.2	10.1
70°-80°	217.5	0.9
80°-90°	4.5	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°	23181.8	100.0
0°-180°	23181.8	100.0

Coefficient of Utilization



REPORT NUMBER: P640751

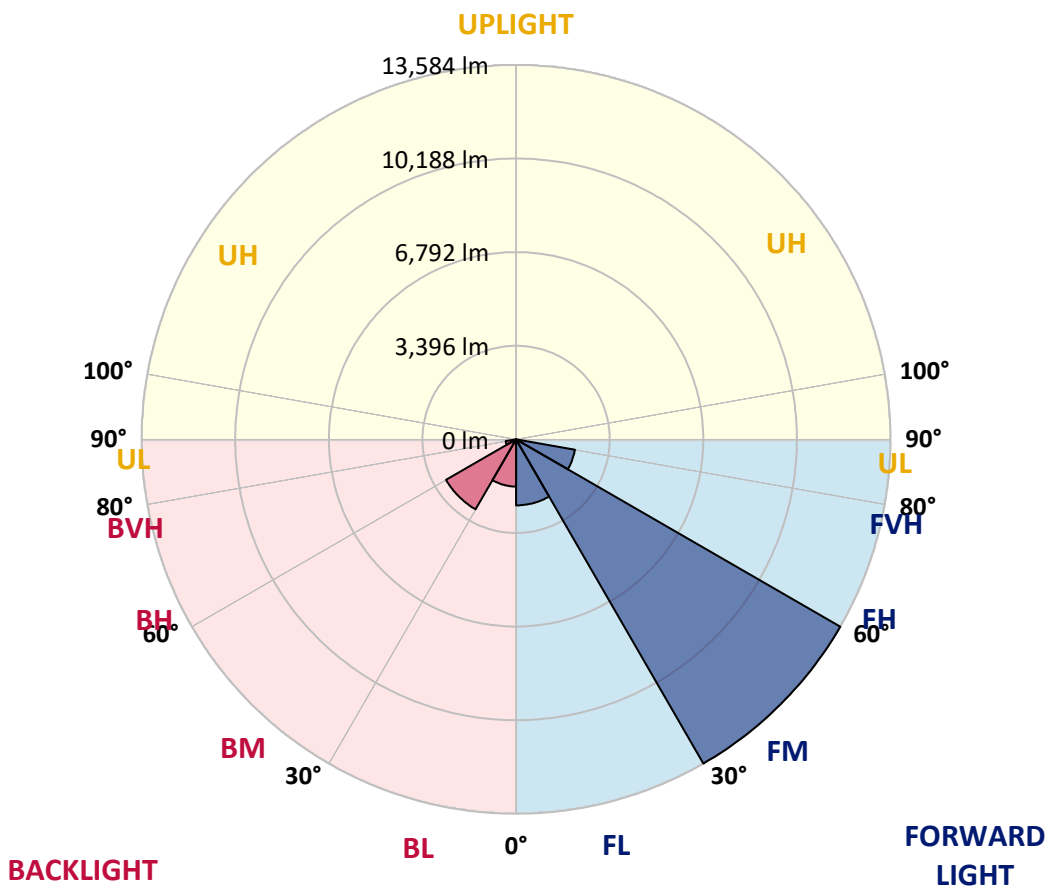
CATALOG NUMBER: GWS-SA5E-740-U-T3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2395.8	10.3			
FM (30°-60°)	13584.3	58.6			
FH (60°-80°)	2169.3	9.4			G2/5000
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	1711.9	7.4	B3/2500		
BM (30°-60°)	2933.6	12.7	B3/5000		
BH (60°-80°)	382.4	1.6	B1/500		G1/500
BVH (80°-90°)	1.4	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-G2

Type II Short





REPORT NUMBER: P640751

CATALOG NUMBER: GWS-SA5E-740-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7
2.5°	3921.0	3918.3	3915.6	3931.8	3926.4	3923.7	3929.1	3929.1	3929.1	3913.0	3880.7
5°	4015.2	4015.2	4012.5	4028.7	4015.2	4007.1	4009.8	4009.8	3999.1	3969.5	3929.1
7.5°	4163.2	4157.8	4152.5	4168.6	4155.2	4152.5	4157.8	4141.7	4122.9	4074.4	4017.9
10°	4375.8	4375.8	4367.8	4383.9	4373.1	4367.8	4367.8	4357.0	4322.0	4246.7	4163.2
12.5°	4669.2	4655.7	4636.9	4623.4	4618.0	4615.3	4618.0	4601.9	4564.2	4467.3	4351.6
15°	4989.4	4978.7	4949.1	4927.5	4897.9	4892.5	4908.7	4895.2	4857.6	4725.7	4561.5
17.5°	5393.1	5406.5	5331.2	5285.4	5199.3	5193.9	5199.3	5220.9	5193.9	5024.4	4784.9
20°	5737.6	5748.3	5691.8	5659.5	5581.5	5546.5	5557.3	5592.2	5562.6	5363.5	5029.8
22.5°	6106.3	6119.7	6060.5	5993.2	5958.2	5958.2	5998.6	6047.0	6006.7	5745.6	5309.7
25°	6547.6	6558.4	6509.9	6421.1	6359.2	6437.3	6496.5	6625.6	6558.4	6203.1	5640.7
27.5°	7053.5	7056.2	6986.3	6894.8	6862.5	7007.8	7067.0	7266.1	7239.2	6717.1	5990.5
30°	7594.5	7597.2	7581.0	7519.1	7489.5	7680.6	7761.3	8049.3	8030.4	7355.0	6466.9
32.5°	8156.9	8156.9	8186.5	8181.1	8216.1	8528.3	8657.5	8985.8	8967.0	8135.4	7058.9
35°	8722.1	8724.8	8775.9	8905.1	9050.4	9464.8	9634.4	10032.7	9989.6	9069.2	7815.1
37.5°	9365.3	9338.3	9408.3	9602.1	9925.0	10404.0	10565.5	10945.0	10896.5	10024.6	8802.8
40°	10140.3	10091.9	10091.9	10317.9	10683.9	11235.6	11372.9	11561.2	11397.1	10796.9	9771.6
42.5°	10996.1	10950.3	10891.1	11090.3	11397.1	11827.7	11940.7	11889.6	11755.0	11526.3	10875.0
45°	11862.7	11792.7	11833.0	11954.1	12131.8	12336.3	12379.4	12142.5	12080.6	12145.2	11787.3
47.5°	12522.0	12473.5	12573.1	12742.7	12888.0	12917.6	12888.0	12559.7	12554.3	12783.0	12419.7
50°	12742.7	12748.0	13022.5	13393.9	13628.1	13652.3	13611.9	13235.1	13184.0	13251.3	12761.5
52.5°	12764.2	12785.7	13186.7	13894.5	14532.3	14822.9	14790.6	14384.3	13883.7	13811.1	13278.2
55°	12244.8	12371.3	12931.0	13964.4	15320.8	16249.2	16356.9	15579.1	14836.4	14774.5	14389.7
57.5°	9787.8	10046.1	10721.6	12193.7	14440.8	16397.3	16677.1	16117.4	15398.8	15135.1	14090.9
60°	5850.6	6170.8	6819.4	8625.2	10990.7	13477.3	13959.1	14037.1	13706.1	12944.5	10810.4
62.5°	2510.9	2483.9	3283.2	4666.5	6536.8	8566.0	8784.0	9123.0	9411.0	8614.4	6561.1
65°	861.2	936.5	1302.5	2104.5	3272.5	3977.5	4171.3	4475.4	4884.5	4031.4	2403.2
67.5°	532.9	565.1	750.8	1243.3	1765.4	1738.5	1652.4	1603.9	1560.9	1068.4	659.3
70°	387.5	414.4	527.5	855.8	1186.8	834.3	723.9	586.7	651.3	600.1	468.3
72.5°	261.0	282.6	363.3	519.4	608.2	406.4	376.8	427.9	516.7	492.5	382.1
75°	156.1	169.5	207.2	253.0	247.6	209.9	212.6	301.4	395.6	368.7	271.8
77.5°	107.6	113.0	137.2	164.2	121.1	64.6	59.2	83.4	134.6	134.6	91.5
80°	26.9	35.0	35.0	21.5	18.8	16.1	16.1	24.2	37.7	26.9	13.5
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	5.4	5.4
85°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4	5.4
87.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	5.4	5.4
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: P640751

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7
2.5°	3899.5	3867.2	3888.7	3883.3	3899.5	3904.9	3880.7	3875.3	3878.0	3845.7	3834.9
5°	3937.2	3899.5	3910.3	3899.5	3918.3	3934.5	3926.4	3937.2	3950.6	3926.4	3915.6
7.5°	4017.9	3980.2	3977.5	3961.4	3988.3	3999.1	3996.4	4026.0	4052.9	4036.7	4020.6
10°	4157.8	4106.7	4101.3	4087.9	4096.0	4104.0	4074.4	4079.8	4104.0	4085.2	4077.1
12.5°	4330.1	4268.2	4254.7	4222.4	4222.4	4182.1	4117.5	4104.0	4122.9	4109.4	4096.0
15°	4515.8	4432.3	4410.8	4354.3	4300.5	4225.1	4157.8	4141.7	4155.2	4139.0	4128.2
17.5°	4723.0	4628.8	4558.8	4459.3	4340.8	4252.0	4176.7	4141.7	4120.2	4087.9	4085.2
20°	4927.5	4803.7	4685.3	4526.5	4370.5	4235.9	4112.1	4020.6	3942.6	3894.1	3875.3
22.5°	5164.3	4981.3	4790.3	4566.9	4343.5	4139.0	3921.0	3764.9	3630.4	3584.6	3563.1
25°	5417.3	5180.5	4895.2	4604.6	4252.0	3923.7	3627.7	3396.2	3218.6	3159.4	3135.2
27.5°	5697.2	5371.6	5002.9	4596.5	4063.7	3616.9	3224.0	2936.1	2761.1	2707.3	2726.1
30°	6052.4	5619.2	5137.4	4513.1	3781.1	3186.3	2726.1	2483.9	2352.1	2300.9	2303.6
32.5°	6526.1	5974.4	5333.9	4335.5	3417.8	2696.5	2292.9	2115.3	2026.4	1959.2	1953.8
35°	7204.2	6515.3	5516.9	4050.2	2976.4	2260.6	1967.2	1827.3	1703.5	1625.5	1638.9
37.5°	8017.0	7196.2	5616.5	3665.4	2481.3	1921.5	1722.3	1579.7	1439.8	1324.1	1337.5
40°	8980.4	8086.9	5608.4	3159.4	2029.1	1690.1	1517.8	1351.0	1176.0	1071.1	1081.8
42.5°	10054.2	8929.3	5433.5	2623.9	1682.0	1501.7	1321.4	1111.5	941.9	877.3	880.0
45°	10985.3	9612.8	5126.7	2069.5	1415.6	1318.7	1116.8	901.5	826.2	780.4	777.7
47.5°	11674.3	10113.4	4688.0	1628.2	1200.3	1151.8	917.7	807.3	748.1	710.5	705.1
50°	12059.1	10288.3	4203.6	1275.6	1014.6	976.9	820.8	732.0	691.6	667.4	662.0
52.5°	12575.8	10498.2	3856.4	1006.5	850.4	799.3	756.2	680.9	654.0	635.1	627.0
55°	13393.9	10904.6	3555.0	799.3	707.8	697.0	713.2	651.3	635.1	605.5	594.7
57.5°	12624.2	9795.8	2761.1	619.0	597.4	637.8	688.9	621.7	581.3	554.4	543.6
60°	8883.5	6512.6	1388.6	497.9	532.9	597.4	648.6	562.5	522.1	527.5	522.1
62.5°	4897.9	3259.0	624.4	417.1	462.9	527.5	554.4	487.1	460.2	505.9	514.0
65°	1601.2	1108.8	360.6	322.9	366.0	430.6	479.0	462.9	457.5	511.3	527.5
67.5°	492.5	366.0	244.9	231.4	253.0	317.6	403.7	500.6	538.2	554.4	562.5
70°	368.7	288.0	209.9	196.5	207.2	242.2	341.8	417.1	392.9	395.6	390.2
72.5°	296.0	228.7	180.3	172.2	172.2	166.9	180.3	226.1	255.7	269.1	269.1
75°	207.2	161.5	137.2	126.5	99.6	80.7	72.7	72.7	64.6	61.9	59.2
77.5°	70.0	59.2	53.8	43.1	29.6	24.2	21.5	18.8	13.5	8.1	5.4
80°	10.8	8.1	5.4	5.4	5.4	2.7	2.7	2.7	0.0	0.0	0.0
82.5°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	0.0	0.0	0.0	0.0
85°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	5.4	5.4	5.4	5.4	2.7	2.7	2.7	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)