

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: P640827

Luminaire Tested: GWS-SA5E-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640827
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-SA5E-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28525.1 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

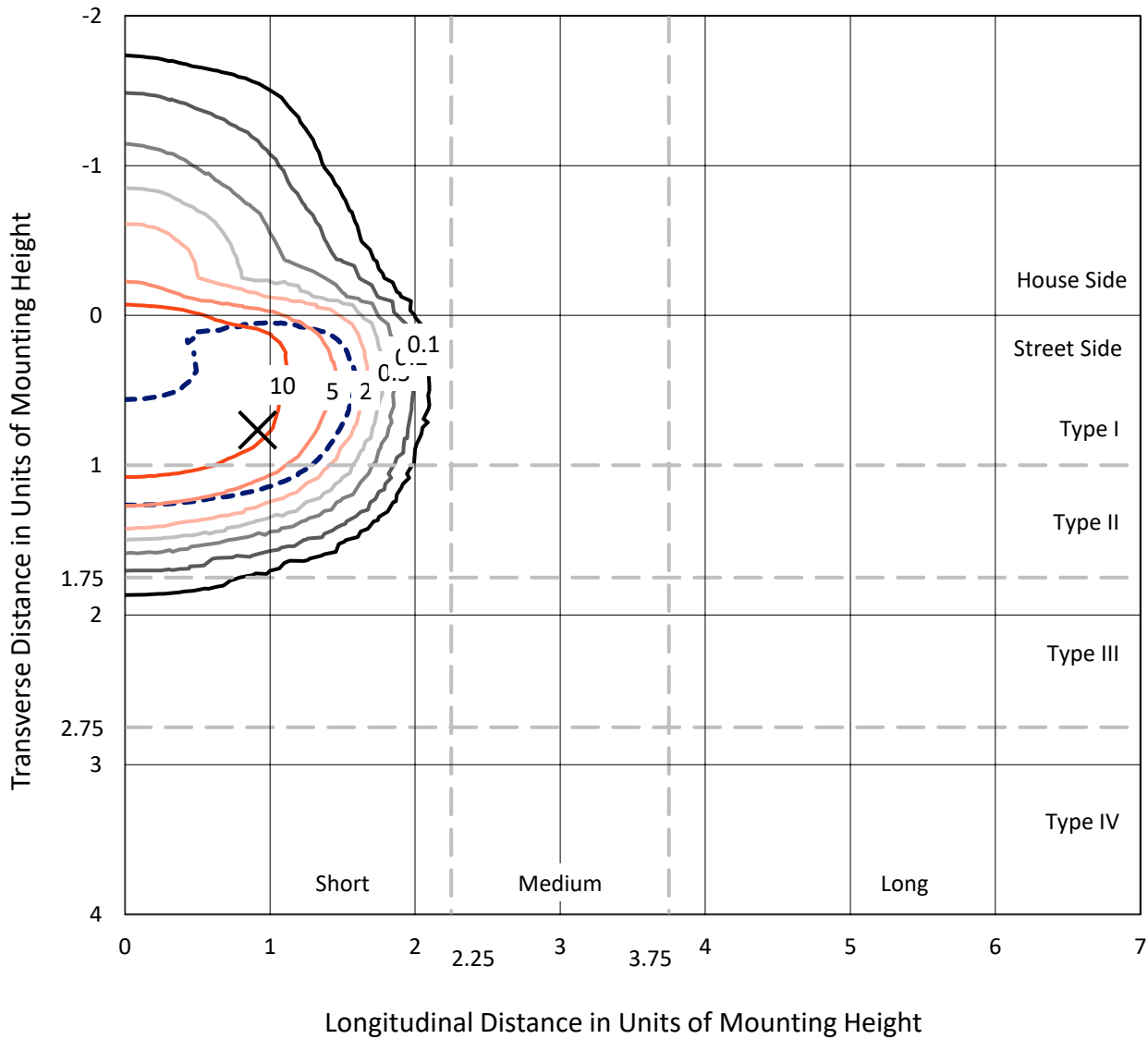
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640827
 CATALOG NUMBER: GWS-SA5E-760-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

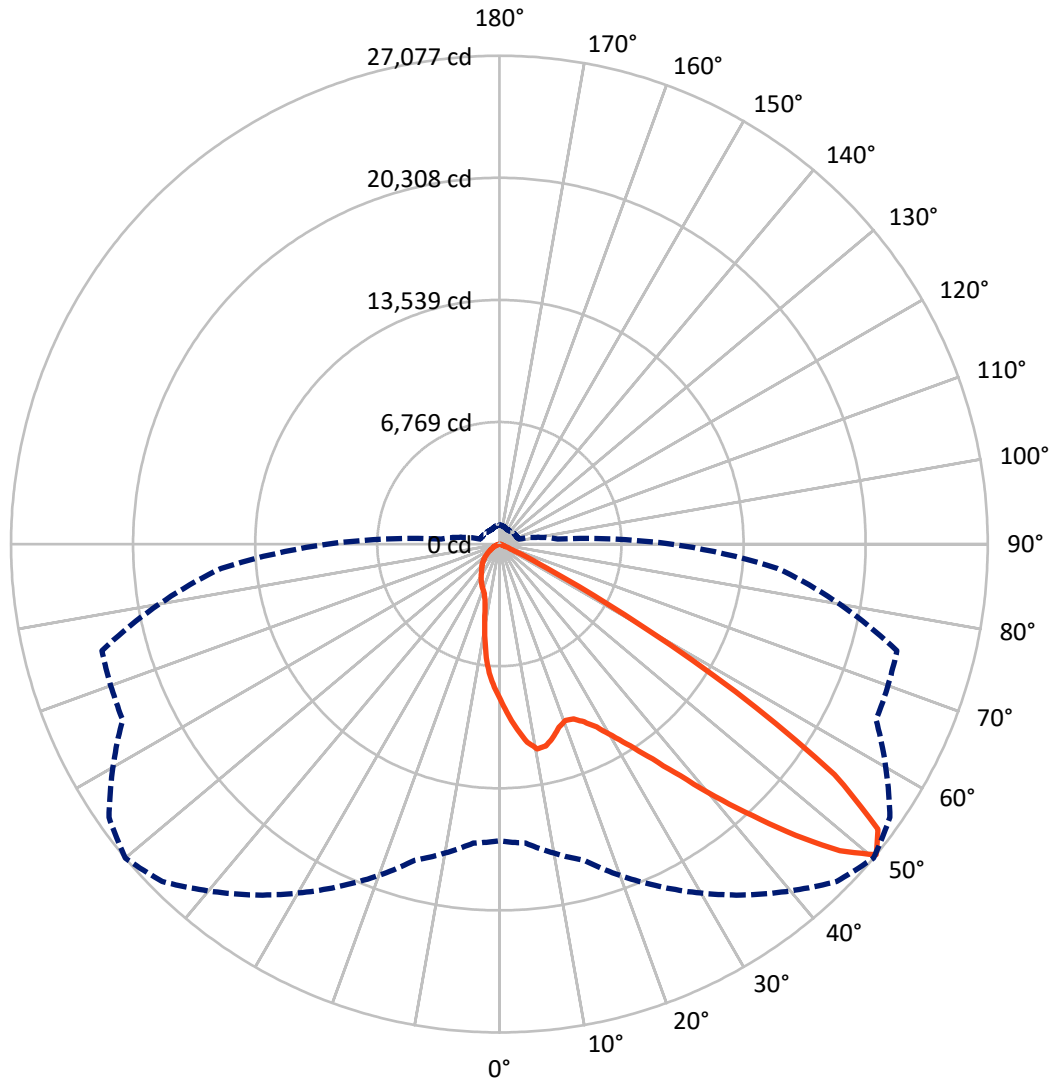
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - N/A

REPORT NUMBER: P640827
CATALOG NUMBER: GWS-SA5E-760-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640827

CATALOG NUMBER: GWS-SA5E-760-U-AFL-W-GRSBK

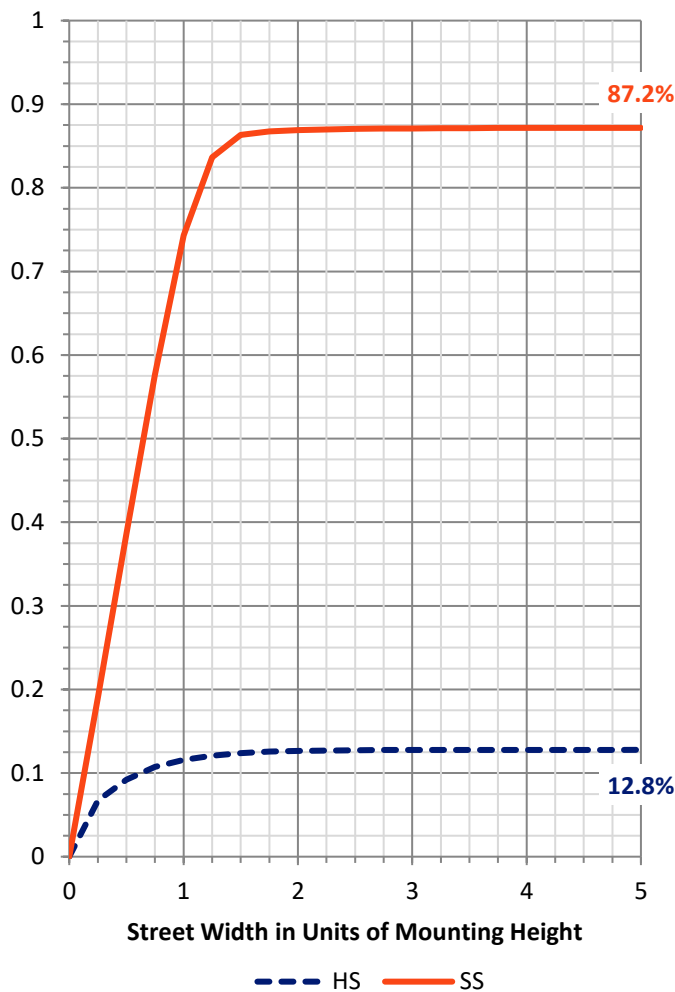
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3665.0	0.0	3665.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	24860.1	0.0	24860.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	28525.1	0.0	28525.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.7	2.8
10°-20°	2068.4	7.3
20°-30°	3413.6	12.0
30°-40°	5633.1	19.7
40°-50°	8912.9	31.2
50°-60°	6748.1	23.7
60°-70°	844.6	3.0
70°-80°	95.5	0.3
80°-90°	7.3	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°	28525.1	100.0
0°-180°	28525.1	100.0

Coefficient of Utilization



REPORT NUMBER: P640827

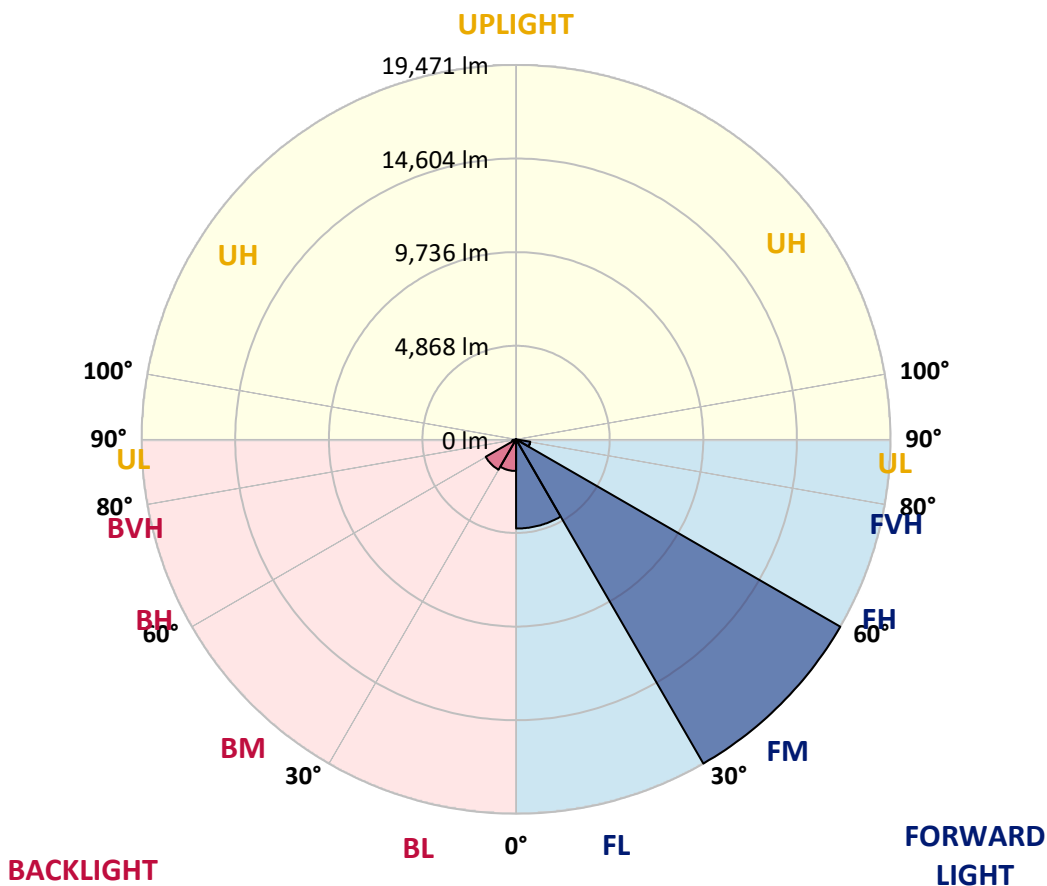
CATALOG NUMBER: GWS-SA5E-760-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4638.6	16.3			
FM (30°-60°)	19471.4	68.3			
FH (60°-80°)	746.7	2.6			G1/1800
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	1645.0	5.8	B3/2500		
BM (30°-60°)	1822.7	6.4	B2/2500		
BH (60°-80°)	193.4	0.7	B1/500		G1/500
BVH (80°-90°)	3.9	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: P640827
 CATALOG NUMBER: GWS-SA5E-760-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0
2.5°	9847.4	9926.2	9904.5	9801.3	9690.0	9611.2	9489.1	9451.1	9174.1	8981.4	8777.7
5°	11036.6	11061.1	11033.9	10909.0	10713.5	10526.2	10325.3	10208.5	9744.3	9326.2	8899.9
7.5°	11321.7	11291.8	11343.4	11405.9	11378.7	11297.3	11085.5	10957.9	10404.0	9722.6	9076.4
10°	10431.2	10363.3	10556.1	10879.2	11218.5	11601.4	11547.1	11557.9	11047.5	10222.1	9307.2
12.5°	9250.1	9223.0	9366.9	9741.6	10406.7	11275.6	11484.6	11834.9	11636.7	10762.4	9570.5
15°	8731.6	8745.1	8832.0	9068.2	9546.1	10626.7	11128.9	11761.6	12163.4	11286.4	9861.0
17.5°	8810.3	8859.2	8856.5	8935.2	9225.7	10091.8	10678.3	11530.8	12570.6	11889.2	10195.0
20°	9345.2	9394.0	9320.7	9261.0	9358.7	9956.1	10442.0	11297.3	12844.9	12497.3	10547.9
22.5°	10146.1	10203.1	10029.4	9858.3	9795.9	10178.7	10531.6	11202.3	13053.9	13053.9	10862.9
25°	11115.4	11194.1	10925.3	10621.2	10447.5	10648.4	10914.5	11416.7	13268.4	13553.5	11077.4
27.5°	12198.7	12201.4	11970.6	11628.5	11302.7	11327.1	11487.3	11900.0	13504.6	14091.1	11245.7
30°	13417.7	13425.9	13119.1	12709.1	12299.1	12187.8	12323.6	12635.8	13996.0	14767.1	11479.2
32.5°	14992.4	15030.5	14590.6	13987.9	13455.7	13246.7	13325.4	13653.9	14778.0	15614.2	11829.4
35°	17121.0	17161.8	16512.9	15717.4	14870.3	14555.3	14634.1	14965.3	15910.1	16817.0	12388.7
37.5°	19222.5	19276.8	18619.7	17878.5	16716.5	16195.2	16276.7	16591.6	17609.7	18478.6	13284.7
40°	20675.0	20748.3	20544.7	20045.1	18967.3	18283.1	18380.8	18494.9	19480.4	20466.0	14446.7
42.5°	21440.7	21543.8	21630.7	21885.9	21318.5	20745.6	20580.0	20588.1	21383.7	22491.4	15654.9
45°	21486.8	21587.3	22032.5	23018.1	23449.8	23330.3	23029.0	22825.3	22836.2	23840.8	16409.7
47.5°	19993.6	20180.9	21014.4	22944.8	24568.4	25559.4	25407.3	24924.1	23447.1	23930.4	16328.2
50°	16455.9	16640.5	18155.5	20933.0	23753.9	26449.9	27077.1	26428.2	23048.0	22814.5	15489.3
52.5°	11951.6	11970.6	12953.5	16197.9	20452.4	24807.3	26284.3	26221.9	22439.8	21462.4	14343.6
55°	5677.1	5609.3	6714.3	9141.5	14145.4	20064.1	22553.8	23259.7	21576.4	20485.0	13455.7
57.5°	1653.5	1686.0	2177.5	3567.6	7075.4	12823.1	15445.9	16759.9	17710.2	16841.4	10436.6
60°	741.2	743.9	828.1	1086.0	2356.7	5964.9	7984.9	9611.2	10588.7	9812.2	5177.6
62.5°	537.6	540.3	572.9	613.6	800.9	2020.0	2994.7	3991.1	4064.4	2660.7	1311.4
65°	448.0	448.0	453.4	453.4	480.6	722.2	909.5	1172.9	988.3	733.1	513.1
67.5°	361.1	363.8	369.2	369.2	361.1	361.1	391.0	429.0	458.8	567.4	472.4
70°	282.4	279.6	279.6	282.4	274.2	233.5	252.5	287.8	314.9	442.6	410.0
72.5°	219.9	222.6	219.9	209.1	190.1	138.5	149.3	187.3	200.9	276.9	276.9
75°	165.6	168.3	157.5	119.5	78.7	43.4	57.0	92.3	116.7	135.8	100.5
77.5°	21.7	21.7	16.3	16.3	13.6	16.3	16.3	21.7	32.6	32.6	24.4
80°	2.7	2.7	2.7	5.4	8.1	10.9	10.9	10.9	10.9	13.6	13.6
82.5°	2.7	2.7	2.7	2.7	8.1	8.1	10.9	10.9	10.9	10.9	10.9
85°	0.0	0.0	0.0	2.7	5.4	8.1	8.1	10.9	10.9	10.9	10.9
87.5°	0.0	0.0	0.0	2.7	5.4	8.1	8.1	8.1	10.9	10.9	10.9
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: P640827
 CATALOG NUMBER: GWS-SA5E-760-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0	8642.0
2.5°	8655.5	8498.1	8308.0	8177.7	7993.1	7870.9	7697.1	7580.4	7479.9	7401.2	7444.6
5°	8658.3	8408.5	8020.2	7689.0	7327.9	6996.7	6641.0	6361.3	6108.8	5994.8	6057.3
7.5°	8712.6	8354.2	7759.6	7170.4	6478.1	5793.9	5153.1	4631.9	4373.9	4251.8	4289.8
10°	8818.4	8329.7	7469.1	6491.7	5367.6	4433.7	3811.9	3459.0	3315.1	3239.0	3252.6
12.5°	8916.2	8313.5	7091.7	5598.4	4235.5	3440.0	3116.9	3068.0	3097.9	3100.6	3097.9
15°	9049.2	8283.6	6624.7	4680.7	3388.4	2973.0	2981.1	3051.7	3122.3	3144.0	3138.6
17.5°	9190.4	8237.4	6022.0	3801.1	2875.2	2837.2	2932.2	3027.3	3097.9	3108.7	3111.4
20°	9337.0	8142.4	5335.1	3103.3	2636.3	2734.0	2839.9	2910.5	2962.1	2978.4	2983.8
22.5°	9404.9	7941.5	4542.3	2603.7	2476.1	2606.4	2685.2	2777.5	2793.8	2734.0	2744.9
25°	9369.6	7602.1	3768.5	2267.1	2315.9	2446.3	2563.0	2516.8	2449.0	2405.5	2419.1
27.5°	9258.3	7151.4	3011.0	2020.0	2144.9	2310.5	2324.1	2272.5	2261.6	2226.3	2237.2
30°	9138.8	6632.8	2421.8	1821.8	1971.1	2144.9	2104.2	2123.2	2125.9	2085.2	2098.7
32.5°	9065.5	6089.8	1927.7	1688.8	1859.8	1892.4	1973.8	2011.8	2014.6	1919.5	1935.8
35°	9090.0	5555.0	1631.7	1580.2	1756.6	1748.5	1862.5	1884.2	1726.8	1596.4	1610.0
37.5°	9288.2	5060.8	1463.4	1496.0	1577.4	1639.9	1726.8	1582.9	1547.6	1487.8	1496.0
40°	9657.4	4640.0	1362.9	1444.4	1455.3	1555.7	1422.7	1441.7	1444.4	1406.4	1414.5
42.5°	10089.1	4289.8	1303.2	1414.5	1387.4	1403.7	1270.6	1308.6	1349.4	1333.1	1335.8
45°	10306.3	3947.7	1251.6	1311.4	1319.5	1164.8	1134.9	1175.6	1227.2	1235.3	1238.1
47.5°	10113.5	3621.9	1197.3	1162.0	1216.3	1061.6	1026.3	1039.9	1099.6	1132.2	1137.6
50°	9524.4	3247.2	1115.9	1029.0	999.1	953.0	920.4	923.1	991.0	1048.0	1058.9
52.5°	8696.3	2856.2	982.8	871.5	803.7	838.9	847.1	830.8	893.2	950.3	961.1
55°	7892.6	2367.5	779.2	708.6	646.2	722.2	743.9	722.2	741.2	779.2	781.9
57.5°	5557.7	1338.5	597.3	586.4	534.9	619.0	654.3	621.7	589.2	613.6	619.0
60°	2576.6	700.5	458.8	458.8	445.3	532.1	591.9	545.7	483.3	494.1	502.3
62.5°	806.4	442.6	336.7	317.7	363.8	453.4	502.3	456.1	382.8	382.8	393.7
65°	456.1	380.1	266.1	244.4	295.9	363.8	393.7	344.8	279.6	274.2	274.2
67.5°	423.5	361.1	236.2	198.2	209.1	233.5	244.4	211.8	192.8	190.1	192.8
70°	350.2	301.4	190.1	135.8	127.6	124.9	130.3	122.2	116.7	119.5	127.6
72.5°	217.2	181.9	119.5	81.5	70.6	67.9	67.9	67.9	65.2	65.2	65.2
75°	78.7	67.9	54.3	40.7	35.3	32.6	32.6	35.3	32.6	29.9	27.2
77.5°	24.4	21.7	21.7	21.7	19.0	16.3	13.6	13.6	10.9	8.1	8.1
80°	13.6	13.6	13.6	13.6	10.9	10.9	8.1	5.4	2.7	2.7	0.0
82.5°	13.6	13.6	13.6	10.9	10.9	10.9	8.1	5.4	2.7	0.0	0.0
85°	10.9	10.9	10.9	10.9	10.9	10.9	8.1	5.4	2.7	0.0	0.0
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	8.1	5.4	2.7	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)