

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: P642807

Luminaire Tested: GWS-SA6D-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642807
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-SA6D-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27218.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

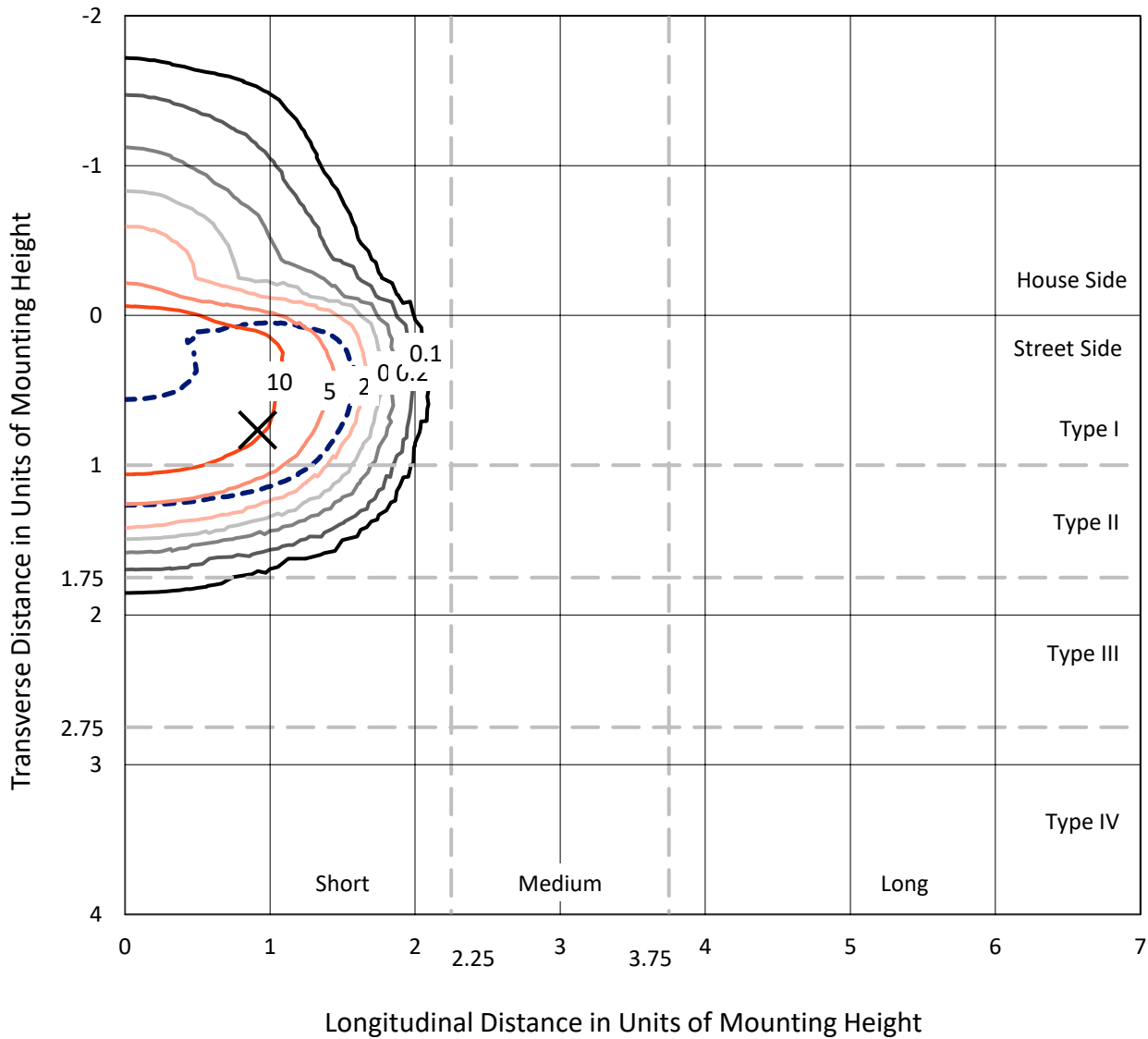
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

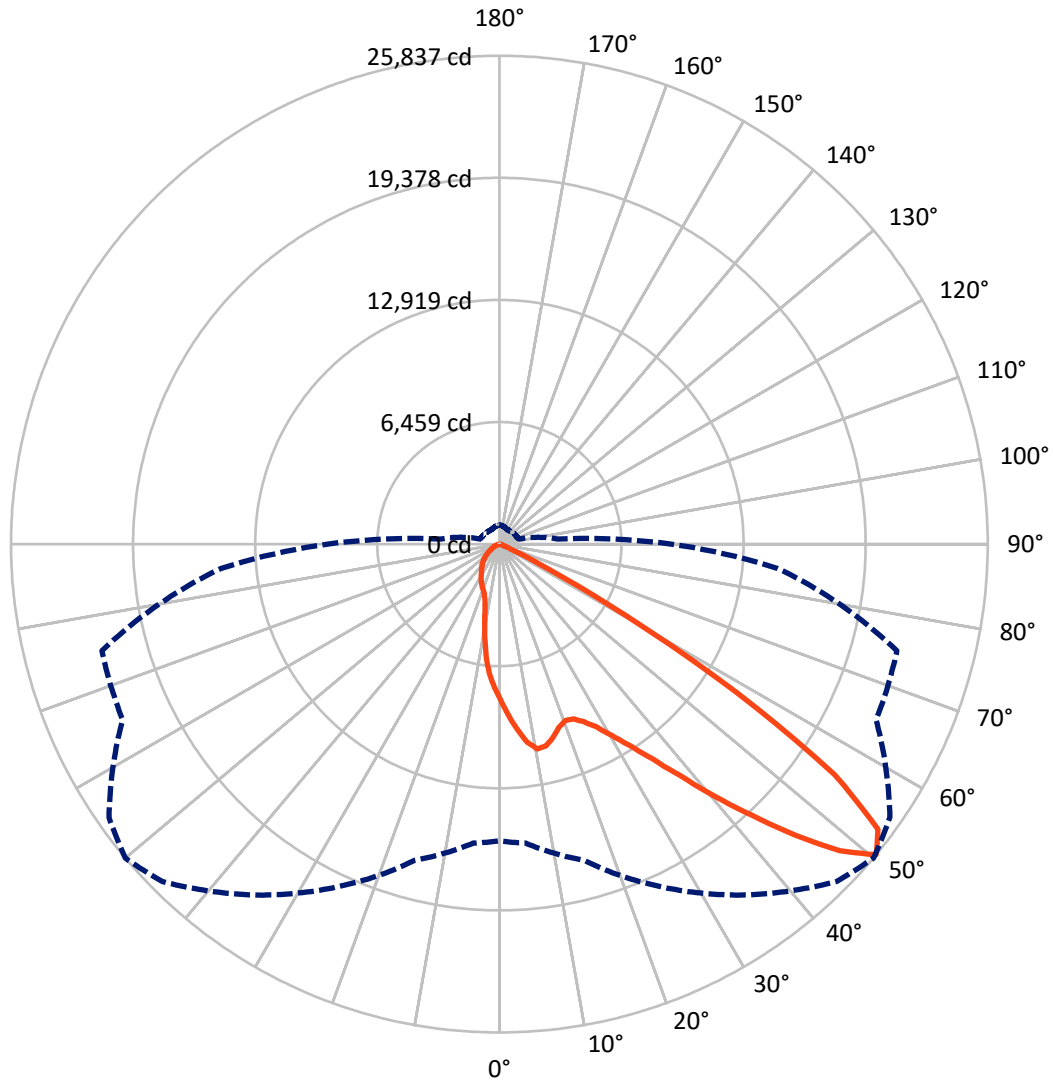
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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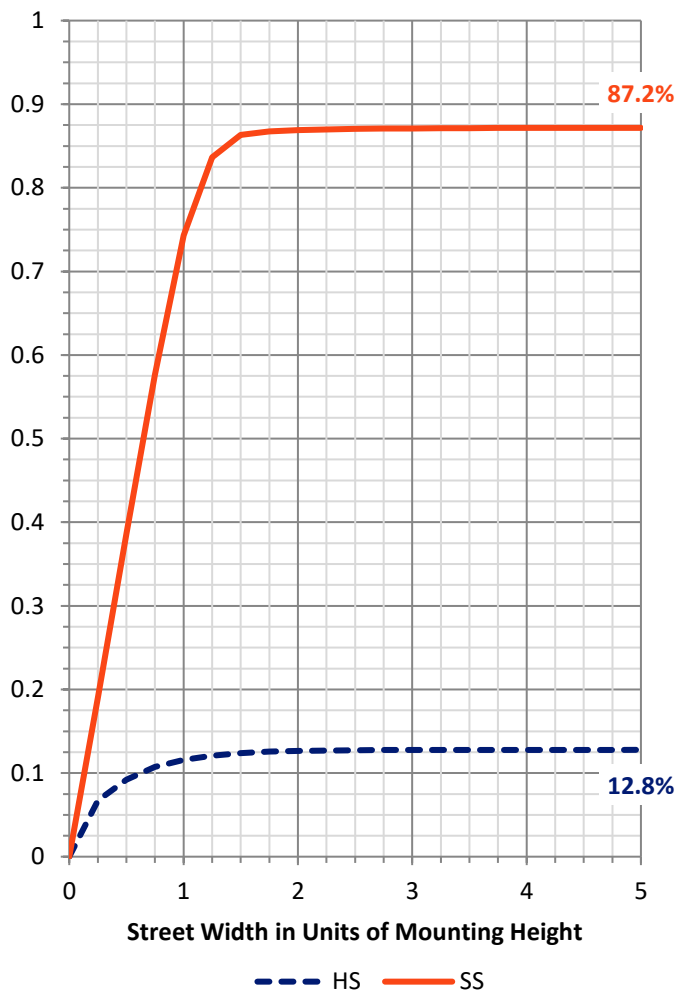
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3497.2	0.0	3497.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	23721.7	0.0	23721.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	27218.9	0.0	27218.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.0	2.8
10°-20°	1973.7	7.3
20°-30°	3257.3	12.0
30°-40°	5375.2	19.7
40°-50°	8504.8	31.2
50°-60°	6439.1	23.7
60°-70°	805.9	3.0
70°-80°	91.2	0.3
80°-90°	7.0	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°	27218.9	100.0
0°-180°	27218.9	100.0

Coefficient of Utilization



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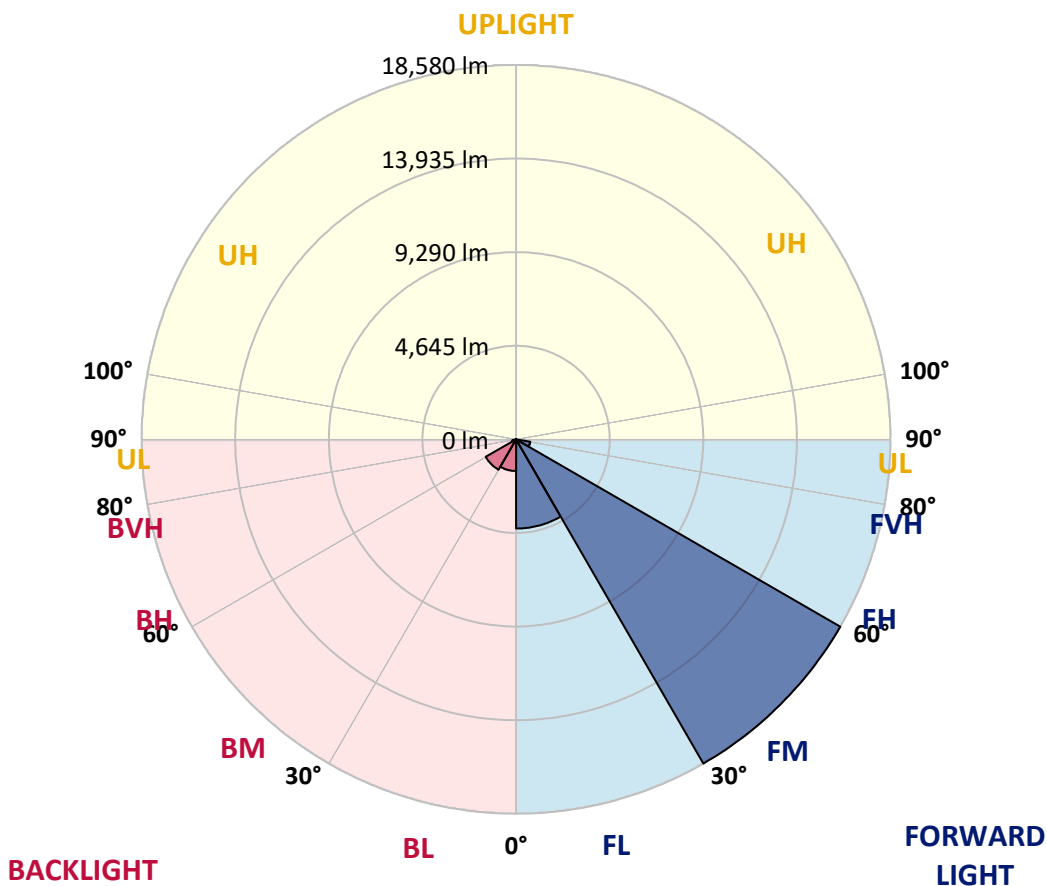
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4426.2	16.3			
FM (30°-60°)	18579.8	68.3			
FH (60°-80°)	712.5	2.6			G1/1800
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	1569.7	5.8	B3/2500		
BM (30°-60°)	1739.2	6.4	B2/2500		
BH (60°-80°)	184.6	0.7	B1/500		G1/500
BVH (80°-90°)	3.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2
2.5°	9396.5	9471.7	9450.9	9352.5	9246.3	9171.1	9054.5	9018.3	8754.0	8570.1	8375.8
5°	10531.3	10554.6	10528.7	10409.5	10223.0	10044.2	9852.5	9741.1	9298.1	8899.1	8492.4
7.5°	10803.3	10774.8	10824.0	10883.6	10857.7	10780.0	10577.9	10456.1	9927.6	9277.3	8660.8
10°	9953.5	9888.8	10072.7	10381.0	10704.8	11070.1	11018.3	11028.7	10541.6	9754.0	8881.0
12.5°	8826.6	8800.7	8938.0	9295.5	9930.2	10759.2	10958.7	11292.9	11103.8	10269.6	9132.3
15°	8331.7	8344.7	8427.6	8653.0	9109.0	10140.1	10619.3	11223.0	11606.4	10769.6	9409.5
17.5°	8406.9	8453.5	8450.9	8526.0	8803.2	9629.7	10189.3	11002.8	11995.0	11344.7	9728.1
20°	8917.2	8963.9	8893.9	8836.9	8930.2	9500.2	9963.9	10780.0	12256.7	11925.1	10064.9
22.5°	9681.5	9735.9	9570.1	9406.9	9347.3	9712.6	10049.4	10689.3	12456.2	12456.2	10365.4
25°	10606.4	10681.5	10425.0	10134.9	9969.1	10160.8	10414.7	10894.0	12660.8	12932.8	10570.1
27.5°	11640.1	11642.7	11422.5	11096.0	10785.1	10808.5	10961.3	11355.1	12886.2	13445.8	10730.7
30°	12803.3	12811.1	12518.3	12127.1	11735.9	11629.7	11759.3	12057.2	13355.1	14090.9	10953.5
32.5°	14305.9	14342.2	13922.5	13347.4	12839.6	12640.1	12715.2	13028.7	14101.3	14899.2	11287.7
35°	16337.0	16375.9	15756.7	14997.6	14189.3	13888.8	13964.0	14280.0	15181.6	16046.9	11821.4
37.5°	18342.3	18394.1	17767.1	17059.9	15951.0	15453.6	15531.3	15831.9	16803.4	17632.4	12676.4
40°	19728.3	19798.2	19603.9	19127.2	18098.7	17445.9	17539.1	17647.9	18588.4	19528.8	13785.2
42.5°	20458.9	20557.3	20640.2	20883.8	20342.3	19795.7	19637.6	19645.4	20404.5	21461.5	14938.1
45°	20502.9	20598.8	21023.6	21964.1	22376.0	22262.0	21974.4	21780.1	21790.5	22749.1	15658.3
47.5°	19078.0	19256.8	20052.1	21894.1	23443.4	24389.0	24243.9	23782.8	22373.4	22834.6	15580.6
50°	15702.3	15878.5	17324.1	19974.4	22666.2	25238.7	25837.2	25218.0	21992.6	21769.8	14780.0
52.5°	11404.3	11422.5	12360.3	15456.2	19515.9	23671.4	25080.7	25021.1	21412.3	20479.6	13686.7
55°	5417.2	5352.4	6406.8	8722.9	13497.6	19145.4	21521.1	22194.7	20588.4	19546.9	12839.6
57.5°	1577.7	1608.8	2077.8	3404.2	6751.4	12235.9	14738.6	15992.5	16899.2	16070.2	9958.7
60°	707.3	709.9	790.2	1036.3	2248.7	5691.8	7619.3	9171.1	10103.8	9362.8	4940.5
62.5°	513.0	515.6	546.6	585.5	764.3	1927.5	2857.6	3808.4	3878.3	2538.9	1251.3
65°	427.5	427.5	432.6	432.6	458.6	689.1	867.9	1119.2	943.0	699.5	489.6
67.5°	344.6	347.2	352.3	352.3	344.6	344.6	373.1	409.3	437.8	541.5	450.8
70°	269.4	266.8	266.8	269.4	261.7	222.8	240.9	274.6	300.5	422.3	391.2
72.5°	209.8	212.4	209.8	199.5	181.4	132.1	142.5	178.8	191.7	264.3	264.3
75°	158.0	160.6	150.3	114.0	75.1	41.5	54.4	88.1	111.4	129.5	95.9
77.5°	20.7	20.7	15.5	15.5	13.0	15.5	15.5	20.7	31.1	31.1	23.3
80°	2.6	2.6	2.6	5.2	7.8	10.4	10.4	10.4	10.4	13.0	13.0
82.5°	2.6	2.6	2.6	2.6	7.8	7.8	10.4	10.4	10.4	10.4	10.4
85°	0.0	0.0	0.0	2.6	5.2	7.8	7.8	10.4	10.4	10.4	10.4
87.5°	0.0	0.0	0.0	2.6	5.2	7.8	7.8	7.8	10.4	10.4	10.4
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°	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2	8246.2
2.5°	8259.2	8108.9	7927.6	7803.2	7627.1	7510.5	7344.7	7233.3	7137.4	7062.3	7103.7
5°	8261.8	8023.4	7653.0	7336.9	6992.3	6676.3	6336.9	6070.0	5829.1	5720.3	5779.9
7.5°	8313.6	7971.6	7404.3	6842.1	6181.4	5528.6	4917.2	4419.8	4173.6	4057.1	4093.3
10°	8414.6	7948.3	7127.1	6194.4	5121.8	4230.6	3637.4	3300.6	3163.3	3090.7	3103.7
12.5°	8507.9	7932.8	6766.9	5342.1	4041.5	3282.4	2974.1	2927.5	2956.0	2958.6	2956.0
15°	8634.9	7904.3	6321.3	4466.4	3233.2	2836.8	2844.6	2912.0	2979.3	3000.0	2994.9
17.5°	8769.6	7860.2	5746.2	3627.0	2743.6	2707.3	2798.0	2888.6	2956.0	2966.4	2969.0
20°	8909.5	7769.6	5090.8	2961.2	2515.6	2608.8	2709.9	2777.2	2826.5	2842.0	2847.2
22.5°	8974.2	7577.8	4334.3	2484.5	2362.7	2487.1	2562.2	2650.3	2665.8	2608.8	2619.2
25°	8940.6	7254.0	3595.9	2163.2	2209.9	2334.2	2445.6	2401.6	2336.8	2295.4	2308.3
27.5°	8834.3	6823.9	2873.1	1927.5	2046.7	2204.7	2217.7	2168.4	2158.1	2124.4	2134.7
30°	8720.3	6329.1	2310.9	1738.4	1880.9	2046.7	2007.8	2025.9	2028.5	1989.7	2002.6
32.5°	8650.4	5811.0	1839.4	1611.4	1774.6	1805.7	1883.4	1919.7	1922.3	1831.6	1847.2
35°	8673.7	5300.6	1557.0	1507.8	1676.2	1668.4	1777.2	1798.0	1647.7	1523.3	1536.3
37.5°	8862.8	4829.1	1396.4	1427.5	1505.2	1564.8	1647.7	1510.4	1476.7	1419.7	1427.5
40°	9215.2	4427.5	1300.5	1378.3	1388.6	1484.5	1357.5	1375.7	1378.3	1342.0	1349.8
42.5°	9627.1	4093.3	1243.5	1349.8	1323.9	1339.4	1212.5	1248.7	1287.6	1272.0	1274.6
45°	9834.4	3766.9	1194.3	1251.3	1259.1	1111.4	1082.9	1121.8	1171.0	1178.8	1181.4
47.5°	9650.4	3456.0	1142.5	1108.8	1160.6	1013.0	979.3	992.2	1049.2	1080.3	1085.5
50°	9088.2	3098.5	1064.8	981.9	953.4	909.3	878.3	880.8	945.6	1000.0	1010.4
52.5°	8298.1	2725.4	937.8	831.6	766.9	800.5	808.3	792.8	852.3	906.8	917.1
55°	7531.2	2259.1	743.5	676.2	616.6	689.1	709.9	689.1	707.3	743.5	746.1
57.5°	5303.2	1277.2	570.0	559.6	510.4	590.7	624.4	593.3	562.2	585.5	590.7
60°	2458.6	668.4	437.8	437.8	424.9	507.8	564.8	520.7	461.1	471.5	479.3
62.5°	769.4	422.3	321.2	303.1	347.2	432.6	479.3	435.2	365.3	365.3	375.7
65°	435.2	362.7	253.9	233.2	282.4	347.2	375.7	329.0	266.8	261.7	261.7
67.5°	404.2	344.6	225.4	189.1	199.5	222.8	233.2	202.1	183.9	181.4	183.9
70°	334.2	287.6	181.4	129.5	121.8	119.2	124.4	116.6	111.4	114.0	121.8
72.5°	207.3	173.6	114.0	77.7	67.4	64.8	64.8	64.8	62.2	62.2	62.2
75°	75.1	64.8	51.8	38.9	33.7	31.1	31.1	33.7	31.1	28.5	25.9
77.5°	23.3	20.7	20.7	20.7	18.1	15.5	13.0	13.0	10.4	7.8	7.8
80°	13.0	13.0	13.0	13.0	10.4	10.4	7.8	5.2	2.6	2.6	0.0
82.5°	13.0	13.0	13.0	10.4	10.4	10.4	7.8	5.2	2.6	0.0	0.0
85°	10.4	10.4	10.4	10.4	10.4	10.4	7.8	5.2	2.6	0.0	0.0
87.5°	10.4	10.4	10.4	10.4	10.4	10.4	7.8	5.2	2.6	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)