

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: P642587

Luminaire Tested: GWS-SA6D-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642587
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-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24567.4 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

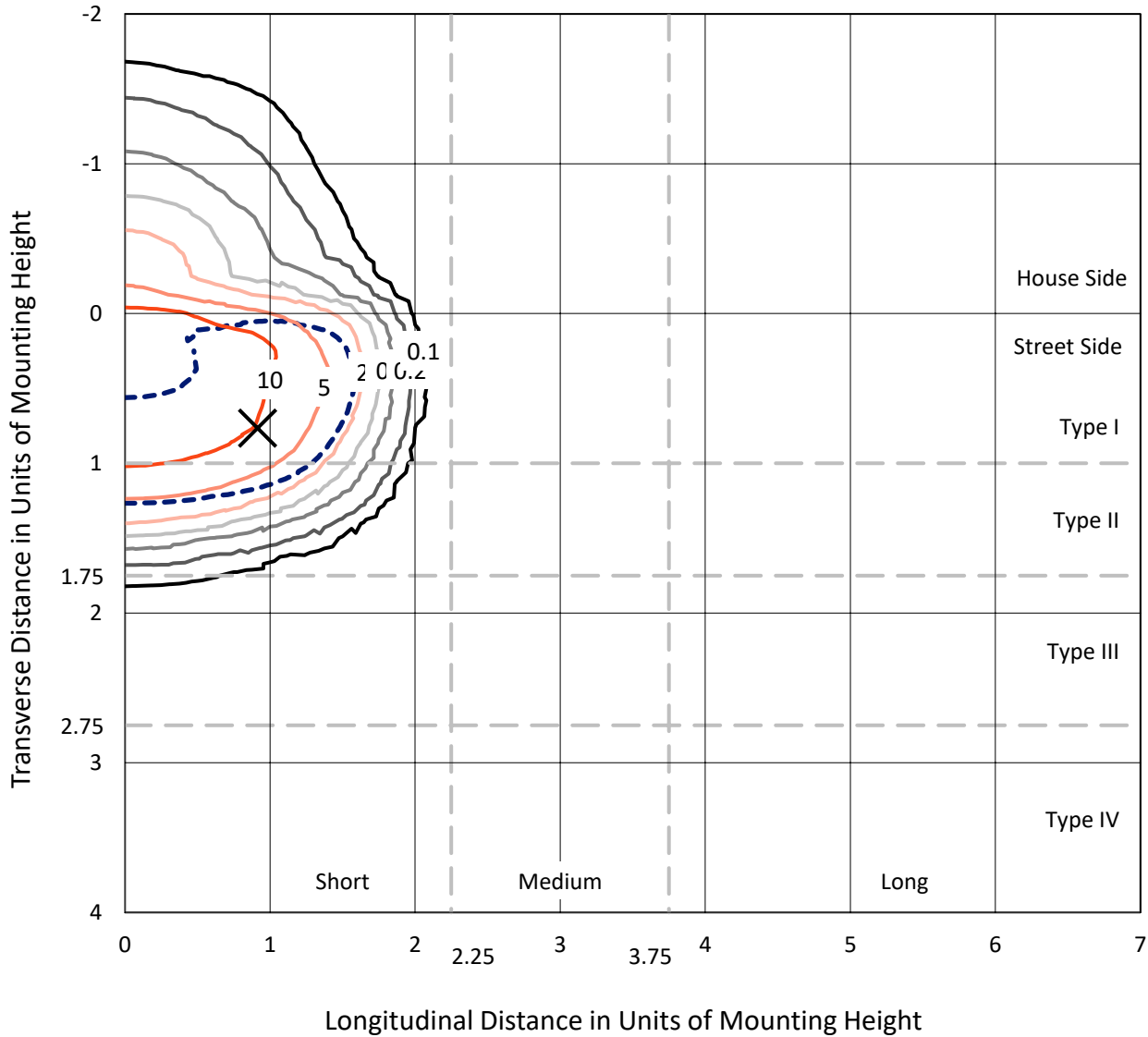
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

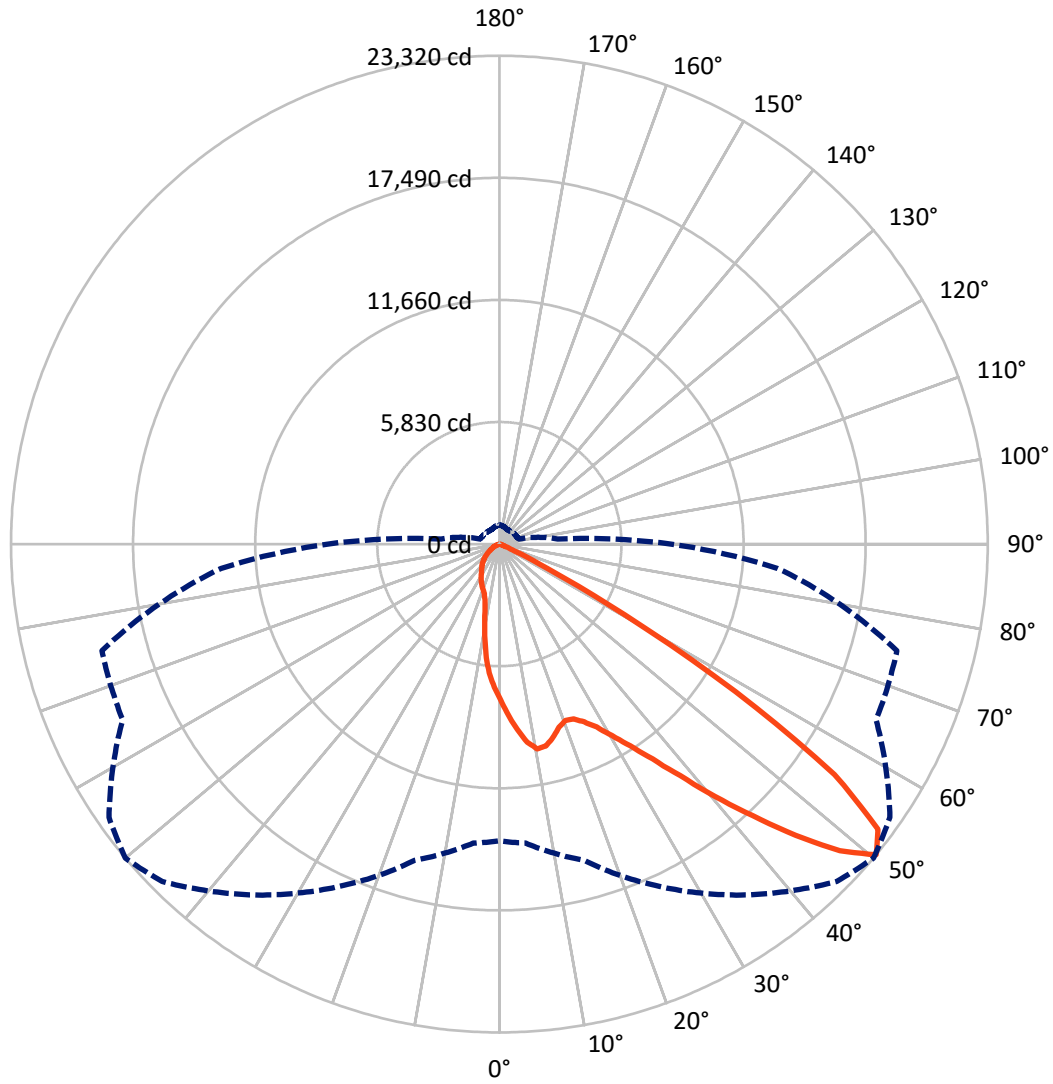
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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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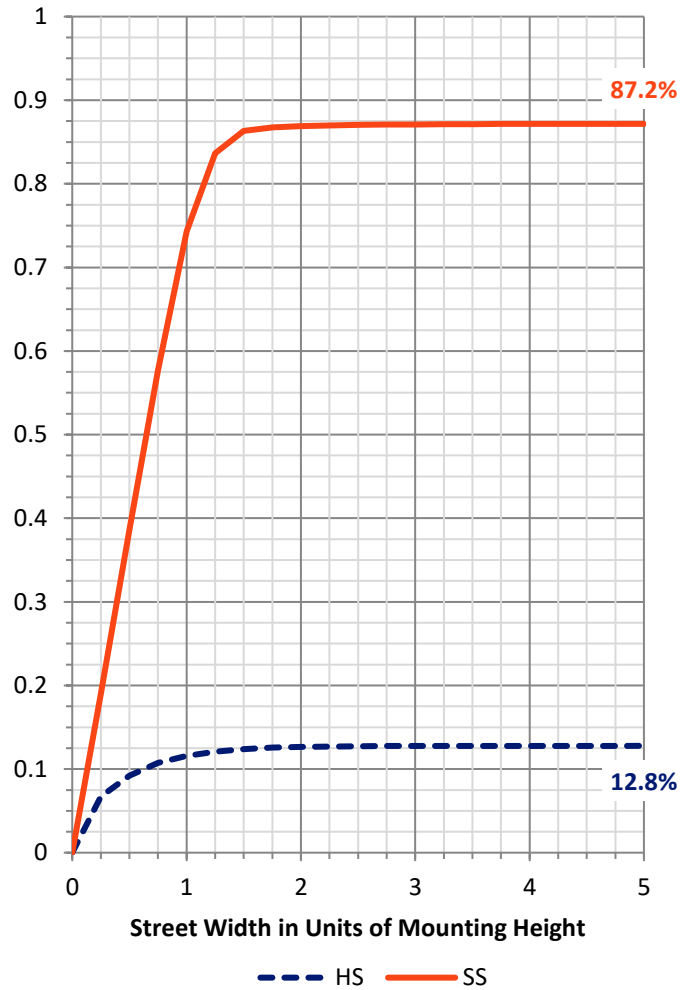
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3156.5	0.0	3156.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	21410.9	0.0	21410.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	24567.4	0.0	24567.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.4	2.8
10°-20°	1781.4	7.3
20°-30°	2940.0	12.0
30°-40°	4851.5	19.7
40°-50°	7676.3	31.2
50°-60°	5811.8	23.7
60°-70°	727.4	3.0
70°-80°	82.3	0.3
80°-90°	6.3	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°	24567.4	100.0
0°-180°	24567.4	100.0

Coefficient of Utilization



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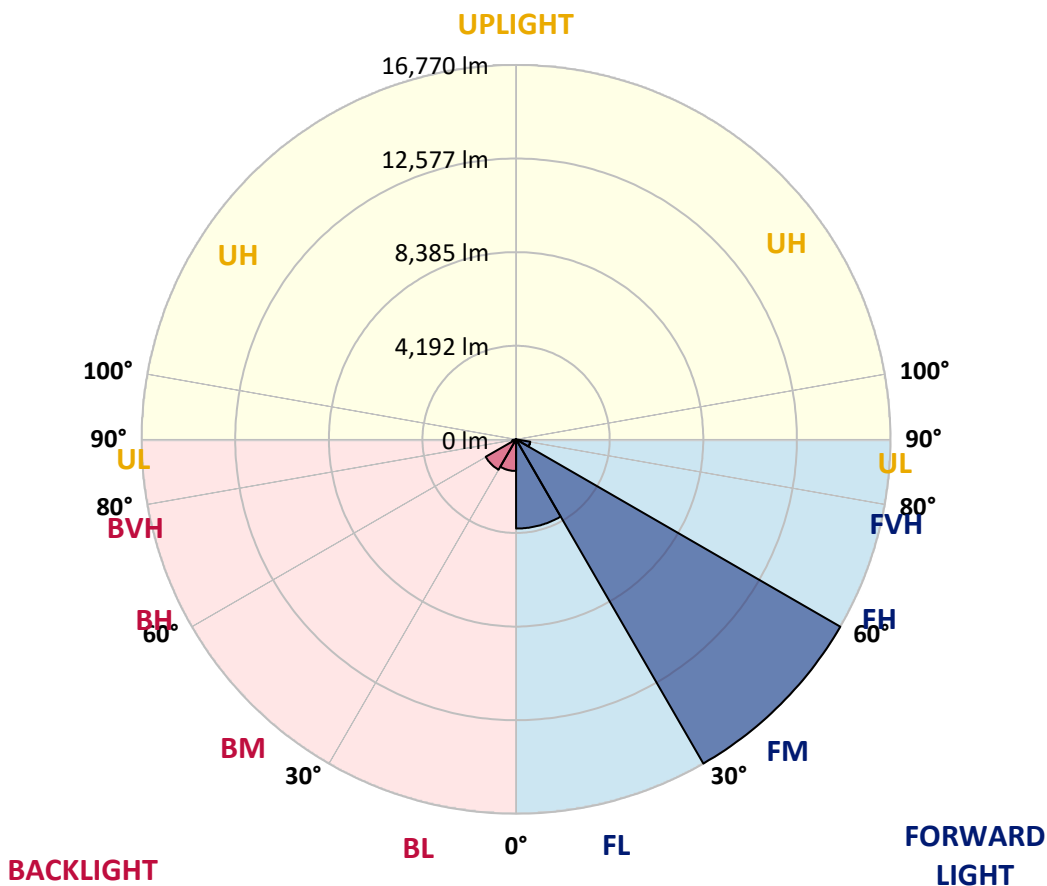
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3995.0	16.3			
FM (30°-60°)	16769.8	68.3			
FH (60°-80°)	643.1	2.6			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1416.8	5.8	B3/2500		
BM (30°-60°)	1569.8	6.4	B2/2500		
BH (60°-80°)	166.6	0.7	B1/500		G1/500
BVH (80°-90°)	3.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9
2.5°	8481.2	8549.0	8530.3	8441.4	8345.5	8277.7	8172.5	8139.8	7901.3	7735.2	7559.9
5°	9505.4	9526.4	9503.0	9395.5	9227.1	9065.8	8892.7	8792.2	8392.3	8032.2	7665.1
7.5°	9750.9	9725.2	9769.6	9823.4	9800.0	9729.8	9547.5	9437.6	8960.5	8373.6	7817.1
10°	8983.9	8925.5	9091.5	9369.7	9662.0	9991.7	9945.0	9954.3	9514.7	8803.9	8015.8
12.5°	7966.7	7943.4	8067.3	8390.0	8962.9	9711.1	9891.2	10192.8	10022.1	9269.2	8242.7
15°	7520.1	7531.8	7606.6	7810.1	8221.6	9152.3	9584.9	10129.7	10475.8	9720.5	8492.9
17.5°	7587.9	7630.0	7627.7	7695.5	7945.7	8691.6	9196.7	9930.9	10826.5	10239.6	8780.5
20°	8048.6	8090.7	8027.5	7976.1	8060.3	8574.7	8993.3	9729.8	11062.7	10763.4	9084.5
22.5°	8738.4	8787.5	8637.8	8490.5	8436.7	8766.4	9070.4	9648.0	11242.8	11242.8	9355.7
25°	9573.2	9641.0	9409.5	9147.6	8997.9	9171.0	9400.1	9832.7	11427.5	11673.0	9540.4
27.5°	10506.2	10508.5	10309.8	10015.1	9734.5	9755.6	9893.5	10249.0	11630.9	12136.0	9685.4
30°	11556.1	11563.1	11298.9	10945.8	10592.7	10496.8	10613.7	10882.6	12054.2	12718.2	9886.5
32.5°	12912.3	12945.1	12566.3	12047.1	11588.8	11408.8	11476.6	11759.5	12727.6	13447.8	10188.2
35°	14745.6	14780.7	14221.8	13536.7	12807.1	12535.9	12603.7	12888.9	13702.7	14483.7	10669.9
37.5°	16555.5	16602.2	16036.4	15398.0	14397.2	13948.2	14018.4	14289.6	15166.5	15914.8	11441.5
40°	17806.5	17869.6	17694.2	17264.0	16335.7	15746.4	15830.6	15928.8	16777.6	17626.4	12442.3
42.5°	18465.9	18554.8	18629.6	18849.4	18360.7	17867.3	17724.6	17731.7	18416.8	19370.8	13482.9
45°	18505.6	18592.2	18975.7	19824.5	20196.3	20093.4	19833.8	19658.4	19667.8	20533.0	14132.9
47.5°	17219.6	17380.9	18098.8	19761.3	21159.7	22013.2	21882.2	21466.0	20193.9	20610.2	14062.8
50°	14172.7	14331.7	15636.5	18028.6	20458.2	22780.1	23320.3	22761.4	19850.2	19649.1	13340.2
52.5°	10293.4	10309.8	11156.2	13950.6	17614.7	21365.4	22637.5	22583.7	19326.4	18484.6	12353.5
55°	4889.5	4831.0	5782.7	7873.2	12182.8	17280.4	19424.6	20032.6	18582.8	17642.8	11588.8
57.5°	1424.1	1452.1	1875.4	3072.6	6093.7	11044.0	13302.8	14434.6	15253.0	14504.7	8988.6
60°	638.4	640.7	713.2	935.3	2029.7	5137.3	6877.1	8277.7	9119.5	8450.8	4459.2
62.5°	463.0	465.3	493.4	528.5	689.8	1739.7	2579.2	3437.4	3500.5	2291.6	1129.4
65°	385.8	385.8	390.5	390.5	413.9	622.0	783.3	1010.2	851.2	631.4	441.9
67.5°	311.0	313.3	318.0	318.0	311.0	311.0	336.7	369.5	395.2	488.7	406.9
70°	243.2	240.8	240.8	243.2	236.2	201.1	217.5	247.9	271.2	381.1	353.1
72.5°	189.4	191.7	189.4	180.1	163.7	119.3	128.6	161.3	173.0	238.5	238.5
75°	142.6	145.0	135.6	102.9	67.8	37.4	49.1	79.5	100.5	116.9	86.5
77.5°	18.7	18.7	14.0	14.0	11.7	14.0	14.0	18.7	28.1	28.1	21.0
80°	2.3	2.3	2.3	4.7	7.0	9.4	9.4	9.4	9.4	11.7	11.7
82.5°	2.3	2.3	2.3	2.3	7.0	7.0	9.4	9.4	9.4	9.4	9.4
85°	0.0	0.0	0.0	2.3	4.7	7.0	7.0	9.4	9.4	9.4	9.4
87.5°	0.0	0.0	0.0	2.3	4.7	7.0	7.0	7.0	9.4	9.4	9.4
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°	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9	7442.9
2.5°	7454.6	7319.0	7155.3	7043.1	6884.1	6778.9	6629.2	6528.7	6442.1	6374.3	6411.7
5°	7457.0	7241.8	6907.5	6622.2	6311.2	6025.9	5719.6	5478.7	5261.3	5163.1	5216.8
7.5°	7503.7	7195.1	6683.0	6175.6	5579.3	4990.0	4438.2	3989.2	3767.1	3661.8	3694.6
10°	7594.9	7174.0	6432.8	5591.0	4622.9	3818.5	3283.0	2979.0	2855.1	2789.6	2801.3
12.5°	7679.1	7160.0	6107.8	4821.7	3647.8	2962.7	2684.4	2642.3	2668.0	2670.4	2668.0
15°	7793.7	7134.3	5705.6	4031.3	2918.3	2560.5	2567.5	2628.3	2689.1	2707.8	2703.1
17.5°	7915.3	7094.5	5186.4	3273.7	2476.3	2443.6	2525.4	2607.3	2668.0	2677.4	2679.7
20°	8041.6	7012.7	4594.8	2672.7	2270.5	2354.7	2445.9	2506.7	2551.1	2565.2	2569.8
22.5°	8100.0	6839.7	3912.0	2242.5	2132.6	2244.8	2312.6	2392.1	2406.2	2354.7	2364.1
25°	8069.6	6547.4	3245.6	1952.5	1994.6	2106.8	2207.4	2167.6	2109.2	2071.8	2083.5
27.5°	7973.7	6159.2	2593.2	1739.7	1847.3	1989.9	2001.6	1957.2	1947.8	1917.4	1926.8
30°	7870.9	5712.6	2085.8	1569.0	1697.6	1847.3	1812.2	1828.6	1830.9	1795.8	1807.5
32.5°	7807.7	5244.9	1660.2	1454.4	1601.8	1629.8	1700.0	1732.7	1735.1	1653.2	1667.2
35°	7828.8	4784.2	1405.3	1360.9	1512.9	1505.9	1604.1	1622.8	1487.2	1374.9	1386.6
37.5°	7999.5	4358.7	1260.4	1288.4	1358.6	1412.4	1487.2	1363.3	1332.9	1281.4	1288.4
40°	8317.5	3996.2	1173.8	1244.0	1253.4	1339.9	1225.3	1241.7	1244.0	1211.3	1218.3
42.5°	8689.3	3694.6	1122.4	1218.3	1194.9	1208.9	1094.3	1127.1	1162.2	1148.1	1150.5
45°	8876.3	3400.0	1078.0	1129.4	1136.4	1003.1	977.4	1012.5	1056.9	1063.9	1066.3
47.5°	8710.3	3119.3	1031.2	1000.8	1047.6	914.3	883.9	895.6	947.0	975.1	979.8
50°	8202.9	2796.7	961.1	886.2	860.5	820.8	792.7	795.0	853.5	902.6	912.0
52.5°	7489.7	2459.9	846.5	750.6	692.1	722.5	729.6	715.5	769.3	818.4	827.8
55°	6797.6	2039.0	671.1	610.3	556.5	622.0	640.7	622.0	638.4	671.1	673.4
57.5°	4786.6	1152.8	514.4	505.1	460.7	533.1	563.5	535.5	507.4	528.5	533.1
60°	2219.1	603.3	395.2	395.2	383.5	458.3	509.8	470.0	416.2	425.6	432.6
62.5°	694.5	381.1	290.0	273.6	313.3	390.5	432.6	392.8	329.7	329.7	339.1
65°	392.8	327.4	229.2	210.5	254.9	313.3	339.1	297.0	240.8	236.2	236.2
67.5°	364.8	311.0	203.4	170.7	180.1	201.1	210.5	182.4	166.0	163.7	166.0
70°	301.6	259.6	163.7	116.9	109.9	107.6	112.2	105.2	100.5	102.9	109.9
72.5°	187.1	156.7	102.9	70.2	60.8	58.5	58.5	58.5	56.1	56.1	56.1
75°	67.8	58.5	46.8	35.1	30.4	28.1	28.1	30.4	28.1	25.7	23.4
77.5°	21.0	18.7	18.7	18.7	16.4	14.0	11.7	11.7	9.4	7.0	7.0
80°	11.7	11.7	11.7	11.7	9.4	9.4	7.0	4.7	2.3	2.3	0.0
82.5°	11.7	11.7	11.7	9.4	9.4	9.4	7.0	4.7	2.3	0.0	0.0
85°	9.4	9.4	9.4	9.4	9.4	9.4	7.0	4.7	2.3	0.0	0.0
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	7.0	4.7	2.3	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)