

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: P641168

Luminaire Tested: GWS-SA5F-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24078 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

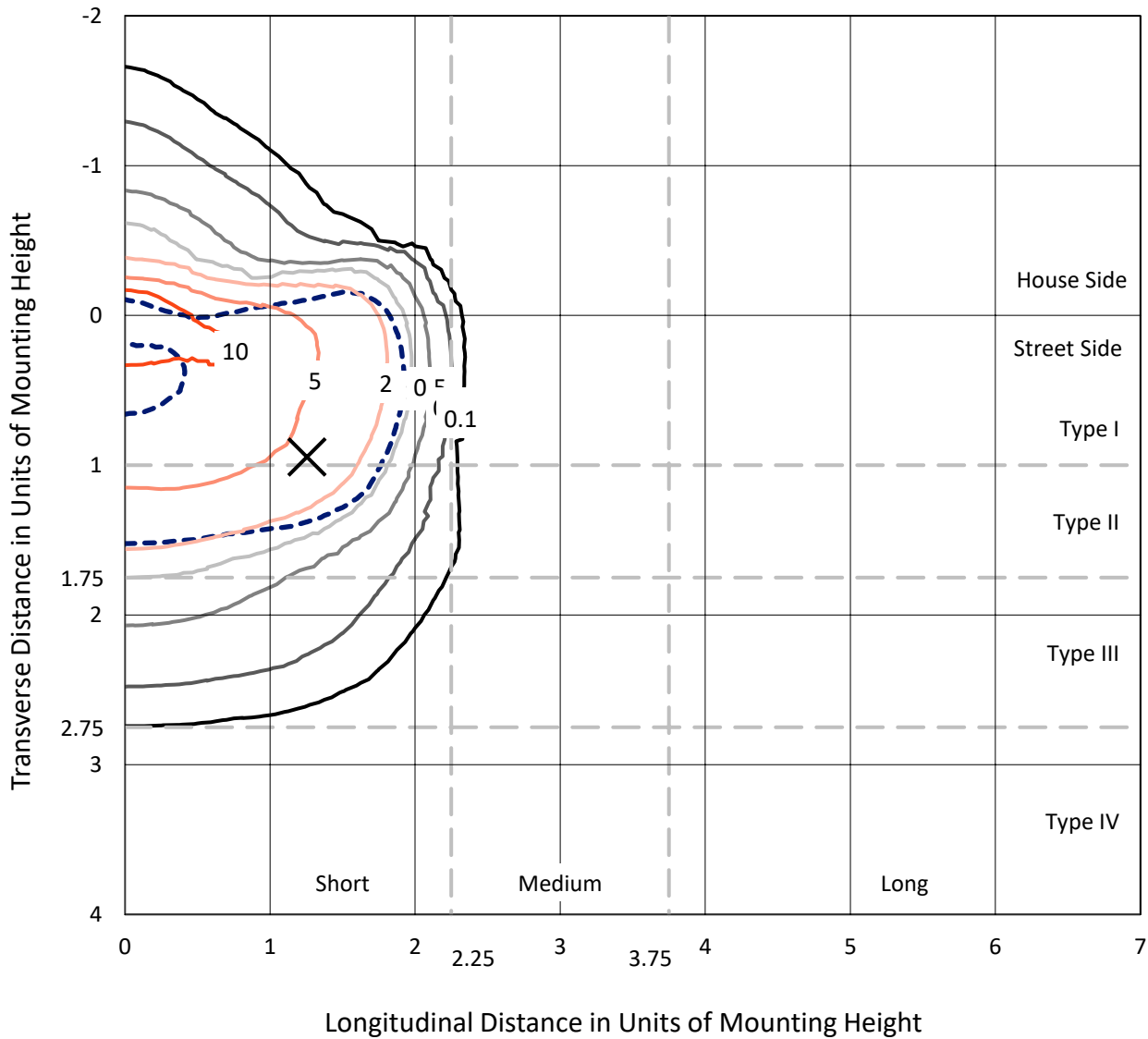
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

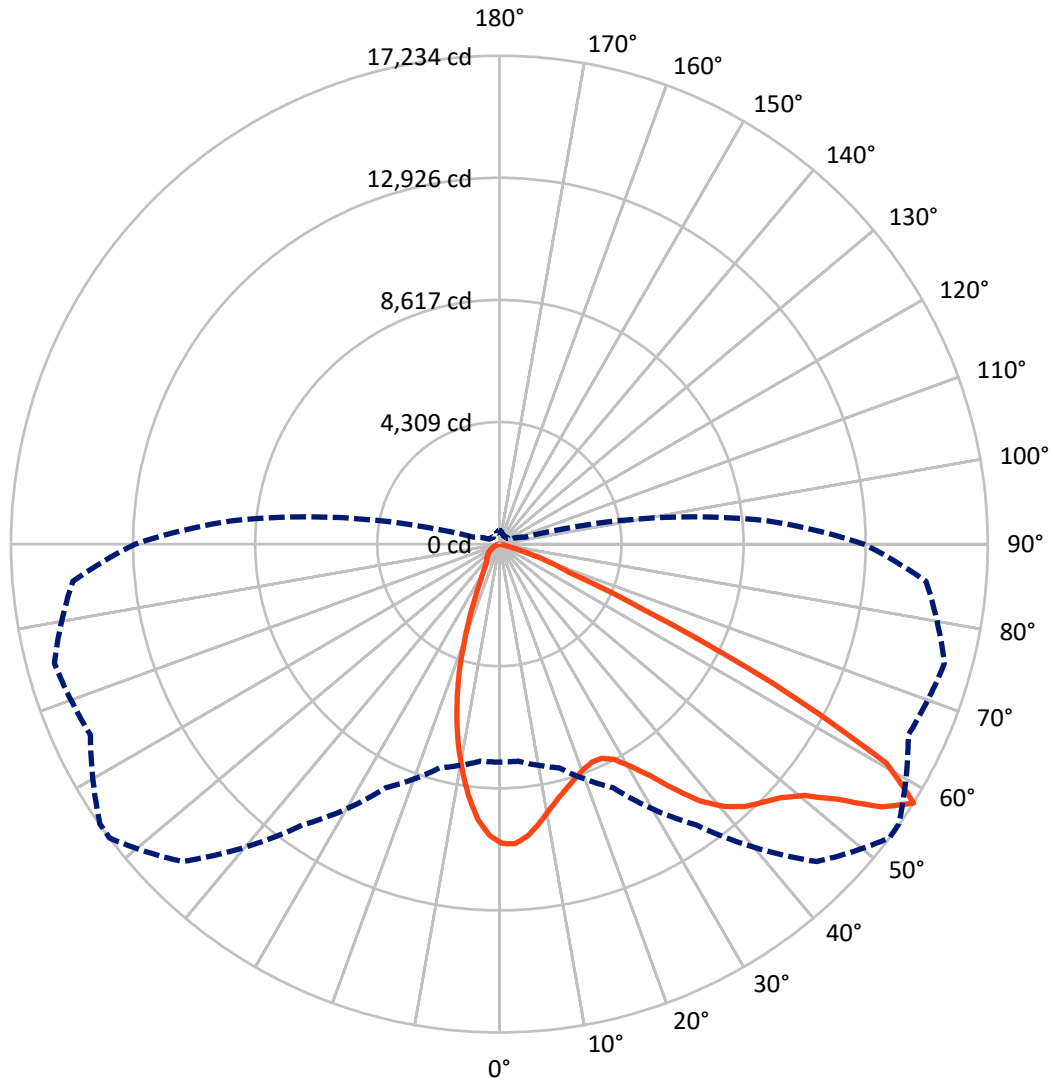
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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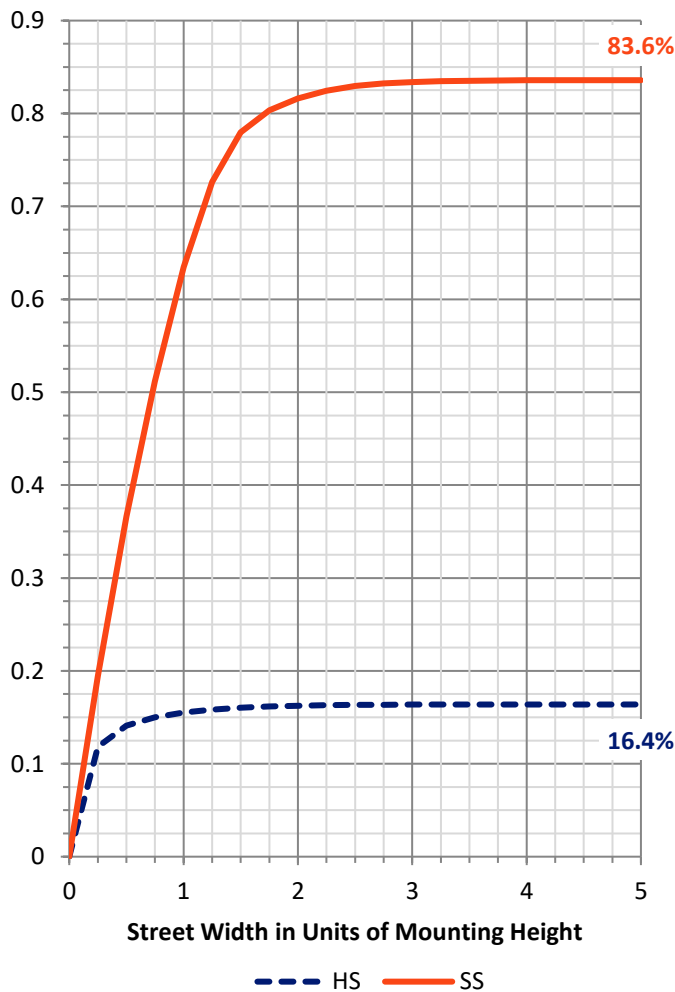
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3977.4	0.0	3977.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20100.6	0.0	20100.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	24078.0	0.0	24078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.7	3.8
10°-20°	1983.9	8.2
20°-30°	2584.5	10.7
30°-40°	3748.8	15.6
40°-50°	5409.3	22.5
50°-60°	6542.0	27.2
60°-70°	2666.3	11.1
70°-80°	239.6	1.0
80°-90°	0.0	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°	24078.0	100.0
0°-180°	24078.0	100.0

Coefficient of Utilization



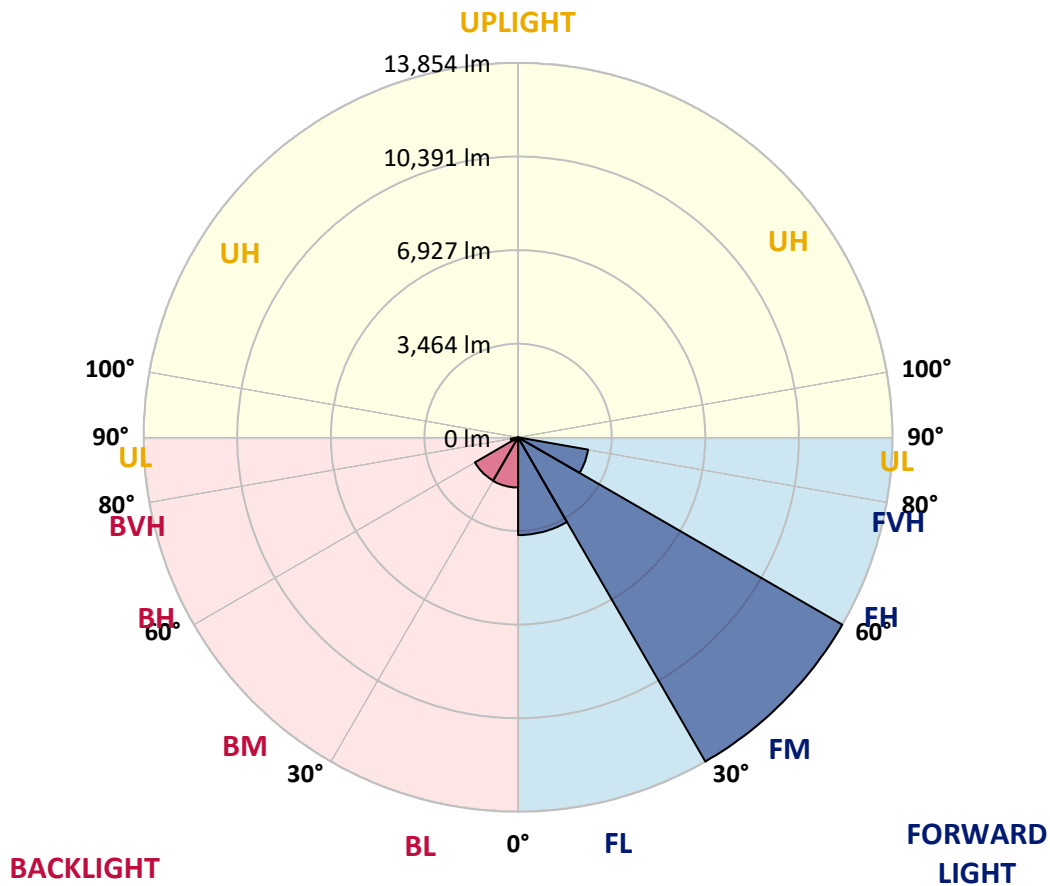
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3615.7	15.0			
FM (30°-60°)	13854.0	57.5			
FH (60°-80°)	2630.9	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1856.3	7.7	B3/2500		
BM (30°-60°)	1846.1	7.7	B2/2500		
BH (60°-80°)	274.9	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0
2.5°	10414.4	10438.0	10479.4	10532.5	10567.9	10585.6	10585.6	10635.8	10603.3	10576.7	10547.2
5°	9968.8	9992.4	10048.5	10134.1	10219.7	10281.6	10352.5	10405.6	10426.2	10426.2	10376.1
7.5°	9340.2	9372.7	9408.1	9526.1	9712.1	9850.8	9971.8	10048.5	10160.6	10196.0	10125.2
10°	8664.4	8696.9	8776.6	8938.9	9151.4	9357.9	9564.5	9661.9	9853.7	9954.1	9874.4
12.5°	8091.9	8106.7	8212.9	8407.7	8679.2	8962.5	9213.3	9313.7	9585.2	9735.7	9641.2
15°	7619.7	7628.6	7734.8	7950.3	8263.1	8611.3	8927.1	9030.4	9363.8	9591.1	9449.4
17.5°	7262.7	7265.6	7357.1	7590.2	7917.8	8304.4	8679.2	8806.1	9236.9	9511.4	9298.9
20°	7082.6	7073.8	7138.7	7342.3	7652.2	8038.8	8481.5	8637.9	9166.1	9499.6	9183.8
22.5°	7085.6	7064.9	7091.5	7236.1	7498.7	7861.7	8357.5	8534.6	9172.0	9549.8	9086.4
25°	7253.8	7224.3	7230.2	7306.9	7492.8	7823.4	8375.2	8564.1	9290.1	9718.0	9051.0
27.5°	7537.1	7504.6	7504.6	7543.0	7643.3	7944.4	8596.6	8812.0	9605.8	10045.5	9124.8
30°	7903.0	7870.6	7858.8	7897.1	7979.8	8257.2	9089.4	9313.7	10145.9	10582.6	9360.9
32.5°	8322.1	8283.7	8304.4	8357.5	8437.2	8820.8	9723.9	10021.9	10821.7	11305.7	9785.8
35°	8764.8	8732.3	8826.7	8941.8	9065.8	9602.9	10600.3	10860.0	11650.9	12205.7	10435.1
37.5°	9186.8	9172.0	9369.7	9611.7	9868.5	10541.3	11491.6	11692.3	12362.2	13185.5	11228.9
40°	9608.8	9605.8	9945.2	10370.2	10780.4	11476.8	12167.4	12332.6	12796.0	13946.9	11990.3
42.5°	10081.0	10081.0	10550.2	11116.8	11662.7	12267.7	12663.2	12736.9	12990.7	14386.6	12562.8
45°	10532.5	10559.0	11102.0	11760.1	12406.4	12884.5	13005.5	13011.4	13070.4	14646.3	13038.0
47.5°	10889.6	10913.2	11562.4	12320.8	13017.3	13353.7	13371.4	13344.9	13279.9	14894.2	13403.9
50°	11178.8	11214.2	11892.9	12695.6	13436.4	13805.2	13941.0	13914.4	13749.2	15159.8	13660.6
52.5°	11320.4	11370.6	12008.0	12881.5	13902.6	14578.4	14956.2	15018.1	14451.5	15307.4	13905.6
55°	10187.2	10261.0	10848.2	12043.4	14162.3	15773.6	16366.8	16355.0	15212.9	15747.1	14501.7
57.5°	7693.5	7687.6	8174.5	9481.9	12096.6	15841.5	17234.4	17210.8	15924.1	16257.6	15112.6
60°	5238.2	5202.8	5332.6	5964.2	8457.8	12905.2	15685.1	16003.8	15419.5	15018.1	12831.4
62.5°	4311.6	4279.1	4237.8	4063.7	4857.5	8038.8	10836.4	11320.4	11243.7	10438.0	8047.6
65°	3529.5	3556.1	3671.2	3597.4	3379.0	4122.7	5624.8	5911.1	5403.5	4547.6	2812.4
67.5°	2602.9	2614.7	2765.2	3154.7	3036.7	2744.5	2647.1	2694.4	1578.8	726.0	469.2
70°	1537.5	1546.4	1685.1	2207.4	2464.2	2107.1	1788.4	1761.8	625.6	194.8	212.5
72.5°	870.6	852.9	879.4	1050.6	1342.8	1118.5	920.7	838.1	188.9	109.2	109.2
75°	413.2	401.3	345.3	324.6	295.1	188.9	118.0	100.3	47.2	44.3	44.3
77.5°	3.0	8.9	5.9	8.9	8.9	5.9	3.0	3.0	8.9	8.9	11.8
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0	10562.0
2.5°	10494.1	10405.6	10384.9	10379.0	10296.4	10207.9	10116.4	10081.0	10027.8	9995.4	10021.9
5°	10296.4	10169.5	10057.3	9954.1	9771.1	9570.4	9396.3	9284.2	9177.9	9107.1	9124.8
7.5°	10016.0	9850.8	9594.0	9331.4	8994.9	8693.9	8357.5	8150.9	7959.1	7852.9	7903.0
10°	9718.0	9499.6	9089.4	8643.8	8115.5	7643.3	7162.3	6769.8	6542.6	6327.2	6350.8
12.5°	9425.8	9136.6	8522.8	7847.0	7180.0	6483.6	5757.6	5214.6	4842.8	4574.2	4532.9
15°	9154.3	8782.5	7970.9	7079.7	6170.7	5244.1	4317.5	3541.3	3110.5	2844.9	2827.2
17.5°	8912.3	8451.9	7398.4	6277.0	5137.9	3951.5	2886.2	2304.8	2056.9	1941.8	1930.0
20°	8679.2	8118.5	6814.1	5462.5	4010.5	2774.0	1992.0	1723.4	1643.8	1596.5	1602.4
22.5°	8454.9	7755.5	6200.3	4559.4	3007.2	1947.7	1543.4	1440.1	1431.3	1437.2	1440.1
25°	8266.0	7422.0	5568.7	3688.9	2145.4	1484.4	1289.6	1260.1	1286.7	1325.0	1330.9
27.5°	8168.6	7150.5	4951.9	2812.4	1552.3	1207.0	1118.5	1130.3	1177.5	1218.8	1224.7
30°	8195.2	6946.9	4314.5	2039.2	1195.2	1018.1	988.6	1012.2	1059.4	1097.8	1103.7
32.5°	8384.1	6843.6	3662.3	1484.4	982.7	888.3	876.5	894.2	935.5	965.0	968.0
35°	8758.9	6867.2	3042.6	1136.2	844.0	790.9	787.9	799.7	820.4	841.1	844.0
37.5°	9310.7	7059.0	2431.7	944.4	764.3	726.0	714.2	714.2	728.9	737.8	743.7
40°	9903.9	7348.2	1947.7	835.2	708.3	666.9	643.3	634.5	646.3	658.1	661.0
42.5°	10393.8	7637.4	1581.8	758.4	664.0	607.9	578.4	572.5	587.3	607.9	613.8
45°	10768.6	7861.7	1319.1	696.5	613.8	551.9	519.4	519.4	546.0	581.4	587.3
47.5°	11110.9	8041.7	1124.4	640.4	566.6	501.7	469.2	475.1	519.4	566.6	575.5
50°	11344.0	8186.3	979.8	590.2	528.2	460.4	430.9	442.7	495.8	551.9	560.7
52.5°	11594.9	8363.4	885.3	546.0	492.8	427.9	401.3	410.2	469.2	531.2	543.0
55°	12288.4	8956.6	882.4	486.9	430.9	383.6	371.8	374.8	433.8	504.6	519.4
57.5°	12855.0	9478.9	941.4	410.2	360.0	336.4	330.5	333.5	386.6	466.3	484.0
60°	10635.8	7365.9	779.1	339.4	301.0	295.1	286.3	292.2	342.3	413.2	427.9
62.5°	6294.7	4211.2	371.8	259.7	256.7	250.8	242.0	253.8	301.0	363.0	371.8
65°	2151.4	1248.3	236.1	212.5	218.4	209.5	200.7	212.5	253.8	289.2	292.2
67.5°	413.2	330.5	188.9	177.1	180.0	162.3	159.4	171.2	194.8	200.7	197.7
70°	215.4	191.8	144.6	144.6	138.7	115.1	115.1	126.9	126.9	118.0	115.1
72.5°	112.1	106.2	94.4	106.2	88.5	70.8	70.8	76.7	70.8	59.0	59.0
75°	44.3	44.3	41.3	53.1	38.4	32.5	29.5	35.4	26.6	20.7	20.7
77.5°	11.8	11.8	11.8	14.8	8.9	8.9	5.9	5.9	3.0	0.0	0.0
80°	0.0	3.0	0.0	3.0	0.0	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)