

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: P643635

Luminaire Tested: GWS-SA6F-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49987 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

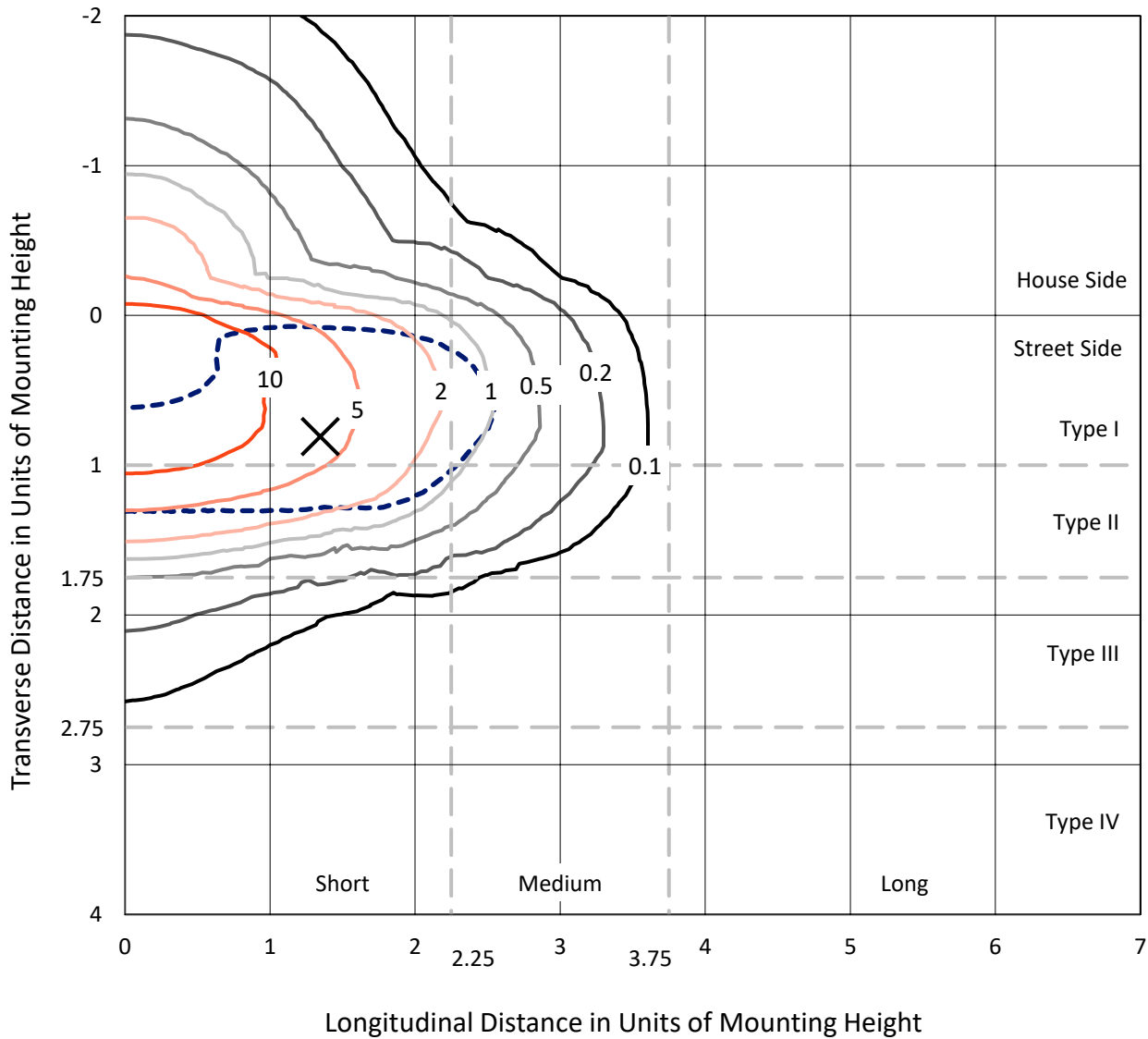
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

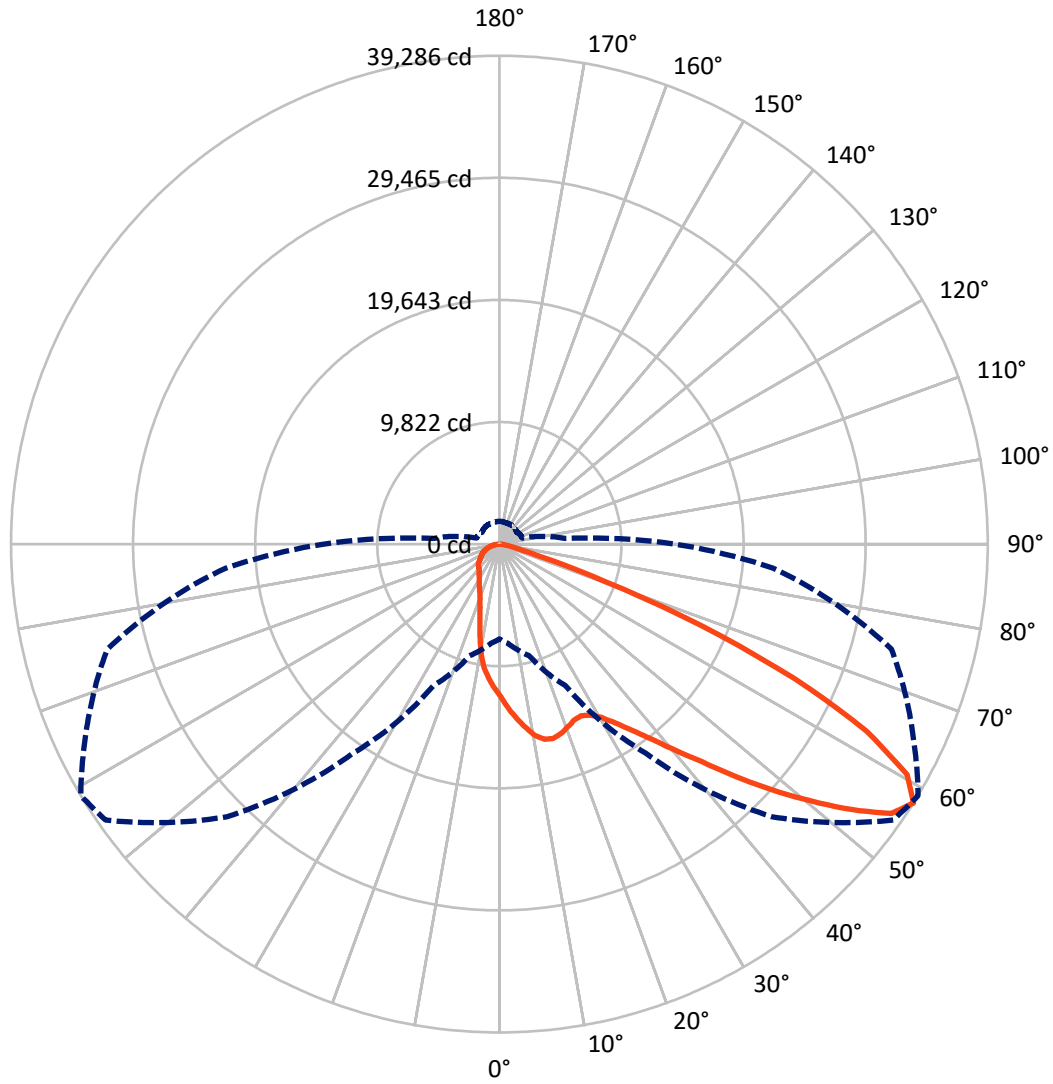
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7757.7	0.0	7757.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	42229.3	0.0	42229.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	49987.0	0.0	49987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1139.4	2.3
10°-20°	2887.2	5.8
20°-30°	4680.1	9.4
30°-40°	7528.6	15.1
40°-50°	11691.2	23.4
50°-60°	12592.9	25.2
60°-70°	7308.4	14.6
70°-80°	1907.9	3.8
80°-90°	251.3	0.5
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°	49987.0	100.0
0°-180°	49987.0	100.0

Coefficient of Utilization



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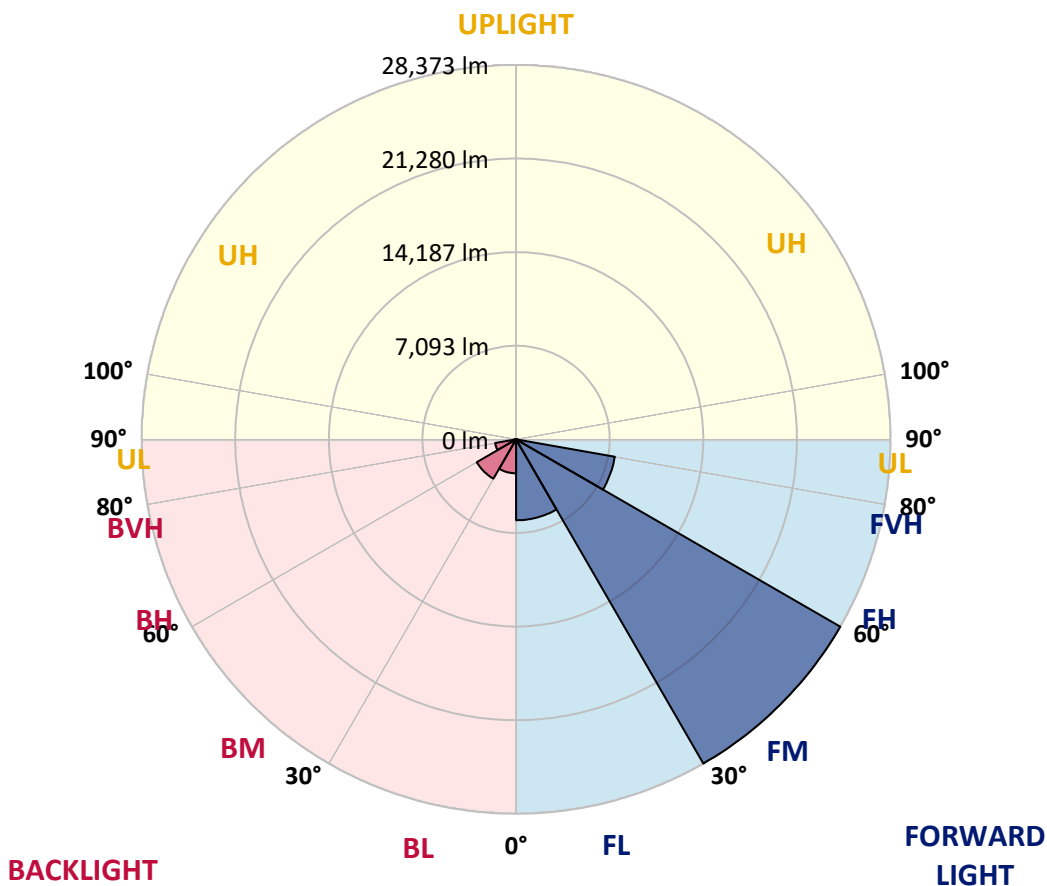
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6132.9	12.3			
FM (30°-60°)	28373.2	56.8			
FH (60°-80°)	7602.8	15.2			G4/12000
FVH (80°-90°)	120.3	0.2			G2/225
BL (0°-30°)	2573.7	5.1	B4/5000		
BM (30°-60°)	3439.5	6.9	B3/5000		
BH (60°-80°)	1613.6	3.2	B3/2500		G3/2500
BVH (80°-90°)	131.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8
2.5°	13917.7	13801.6	13882.5	13738.2	13678.4	13520.1	13316.0	13178.7	12967.6	12693.1	12453.8
5°	15300.7	15219.7	15237.3	15082.5	14945.3	14681.3	14262.6	14030.3	13671.4	13118.9	12605.1
7.5°	15258.5	15353.5	15406.3	15540.0	15578.7	15554.1	15177.5	14853.8	14459.6	13629.1	12855.0
10°	13678.4	13857.9	14019.8	14477.2	15033.2	15737.0	15825.0	15631.5	15233.8	14280.2	13154.1
12.5°	11957.6	12094.9	12239.1	12788.1	13639.7	15047.3	16001.0	16120.6	15962.3	14924.1	13491.9
15°	11113.1	11176.4	11313.6	11676.1	12355.3	13917.7	15694.8	16219.1	16504.2	15606.8	13872.0
17.5°	11077.9	11106.0	11172.9	11366.4	11838.0	13045.0	15142.3	16022.1	16930.0	16328.2	14315.4
20°	11806.3	11732.4	11690.2	11686.7	11918.9	12752.9	14607.4	15705.4	17130.6	17067.2	14790.4
22.5°	12816.3	12840.9	12749.4	12524.2	12496.0	12960.5	14340.0	15385.1	17190.4	17721.8	15230.3
25°	14248.5	14371.7	14100.7	13671.4	13460.2	13562.3	14505.4	15286.6	17183.4	18267.2	15504.8
27.5°	15920.0	16015.0	15740.6	15177.5	14741.2	14494.8	14998.0	15578.7	17243.2	18738.8	15670.2
30°	17823.8	17855.5	17479.0	16887.8	16250.8	15723.0	15818.0	16180.4	17549.3	19358.1	15863.7
32.5°	20149.9	20283.6	19713.5	18777.5	17887.2	17211.5	16919.4	17151.7	18210.9	20090.1	16162.8
35°	23102.3	23148.1	22423.2	21082.4	19822.6	18886.6	18274.3	18397.4	19217.3	21114.1	16613.3
37.5°	25885.9	25931.6	25161.0	23915.2	22113.5	20832.6	19945.8	19889.5	20505.3	22560.4	17348.7
40°	27652.4	27782.6	27437.8	26656.5	24935.7	23207.9	22004.4	21810.9	22194.4	24330.5	18372.8
42.5°	28602.6	28658.9	28651.8	28753.9	27729.8	26012.6	24327.0	23939.9	24196.8	26241.3	19407.4
45°	28609.6	28750.4	29126.9	30108.7	30154.4	29084.7	27261.8	26656.5	26420.8	28166.2	20487.7
47.5°	27328.7	27480.0	28514.6	30446.5	31871.7	32114.5	30777.3	29563.3	28570.9	29823.7	21374.5
50°	23450.7	23830.8	25801.4	29218.4	32209.6	34542.7	34130.9	32484.0	30481.7	31104.6	21930.5
52.5°	20083.0	20068.9	21283.0	25748.6	30798.4	35612.4	37375.5	35489.3	32371.4	31917.5	22071.3
55°	14706.0	14786.9	16029.1	19692.4	27033.1	34577.9	39159.6	38255.2	34539.1	32350.3	22015.0
57.5°	7625.7	8026.9	9300.8	12566.4	20540.5	31016.6	38684.5	39286.3	36742.0	32656.5	22088.9
60°	3853.3	3775.9	4233.4	5999.9	11901.3	24224.9	35756.7	37674.6	37139.7	32895.8	22134.6
62.5°	2572.4	2551.3	2424.6	2780.0	4863.3	14347.0	30481.7	33170.2	34377.3	32332.7	21550.5
65°	2227.5	2185.3	1953.1	1939.0	2361.3	5950.7	22342.2	26075.9	28412.5	29830.7	20153.4
67.5°	2005.8	1942.5	1706.7	1590.6	1696.2	2614.6	12591.0	17489.5	20980.4	25227.8	17091.9
70°	1791.2	1759.5	1523.7	1354.8	1344.3	1594.1	4638.1	9026.3	12837.4	17211.5	12496.0
72.5°	1604.7	1548.4	1347.8	1185.9	1105.0	1129.6	2012.9	3476.8	6643.9	10736.5	7474.4
75°	1390.0	1347.8	1171.8	1010.0	911.4	827.0	1228.1	1608.2	3029.9	5102.6	3529.6
77.5°	1073.3	1045.1	925.5	802.3	746.0	615.8	746.0	1013.5	1400.6	2150.1	1836.9
80°	622.9	640.5	689.7	626.4	549.0	439.9	485.6	584.2	841.0	1164.8	1041.6
82.5°	313.2	334.3	446.9	362.5	327.3	256.9	288.6	344.9	439.9	644.0	408.2
85°	24.6	24.6	80.9	91.5	112.6	91.5	116.1	140.8	200.6	256.9	137.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.6	17.6	31.7	59.8	38.7
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°	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8	12270.8
2.5°	12291.9	12112.5	11897.8	11721.8	11450.9	11306.6	11123.6	10898.4	10806.9	10764.7	10740.0
5°	12316.6	11999.8	11542.4	11120.1	10652.1	10282.6	9870.8	9441.5	9195.2	9135.4	9093.1
7.5°	12408.1	11964.7	11236.2	10539.5	9670.3	8864.4	8079.7	7302.0	6904.3	6753.0	6738.9
10°	12534.7	11950.6	10926.5	9768.8	8301.4	7027.5	6109.0	5500.2	5243.3	5158.9	5130.7
12.5°	12693.1	11940.0	10518.3	8699.0	6721.3	5517.8	4993.5	4895.0	4930.1	4923.1	4923.1
15°	12893.7	11954.1	10025.7	7488.5	5436.9	4789.4	4799.9	4916.1	5025.2	5042.8	5042.8
17.5°	13111.9	11940.0	9311.3	6274.4	4666.2	4616.9	4778.8	4940.7	5039.2	5053.3	5053.3
20°	13347.6	11873.2	8410.4	5130.7	4328.4	4507.9	4683.8	4810.5	4870.3	4884.4	4884.4
22.5°	13488.4	11683.1	7432.2	4342.5	4113.7	4335.4	4451.6	4581.8	4588.8	4476.2	4472.7
25°	13467.3	11327.7	6316.6	3835.7	3885.0	4078.5	4226.3	4134.8	4022.2	3958.9	3948.3
27.5°	13333.6	10792.8	5180.0	3452.2	3614.0	3832.2	3786.5	3709.0	3680.9	3610.5	3603.5
30°	13164.6	10134.8	4159.5	3153.0	3332.5	3533.1	3462.7	3455.7	3427.5	3350.1	3350.1
32.5°	13002.8	9455.6	3388.8	2931.3	3153.0	3167.1	3265.6	3272.7	3258.6	3124.9	3110.8
35°	12957.0	8776.4	2868.0	2755.4	2977.1	2970.0	3110.8	3107.3	2864.5	2678.0	2674.5
37.5°	13094.3	8086.7	2558.3	2611.1	2734.3	2825.8	2938.4	2734.3	2653.3	2540.7	2533.7
40°	13386.3	7449.8	2400.0	2526.7	2579.4	2713.2	2537.2	2551.3	2530.2	2445.7	2435.2
42.5°	13773.4	6907.8	2312.0	2498.5	2491.5	2526.7	2333.1	2389.4	2421.1	2357.7	2347.2
45°	14146.4	6436.3	2266.2	2392.9	2428.1	2224.0	2185.3	2238.1	2287.4	2262.7	2252.2
47.5°	14420.9	6028.1	2241.6	2248.7	2347.2	2122.0	2058.6	2083.3	2143.1	2153.6	2150.1
50°	14505.4	5679.7	2213.5	2129.0	2107.9	2019.9	1970.6	1963.6	2034.0	2083.3	2090.3
52.5°	14343.5	5370.0	2139.6	2023.4	1921.4	1935.5	1917.9	1882.7	1953.1	2019.9	2027.0
55°	14104.2	5194.1	2023.4	1921.4	1801.7	1858.0	1865.1	1833.4	1879.2	1924.9	1924.9
57.5°	14121.8	5296.1	1910.8	1826.4	1696.2	1770.1	1808.8	1794.7	1794.7	1829.9	1833.4
60°	14237.9	5443.9	1836.9	1706.7	1590.6	1668.0	1756.0	1741.9	1710.2	1756.0	1756.0
62.5°	13903.6	5246.9	1787.7	1590.6	1478.0	1569.5	1675.1	1668.0	1632.8	1706.7	1713.8
65°	12918.3	4719.0	1731.4	1446.3	1365.4	1470.9	1562.4	1587.1	1555.4	1653.9	1671.5
67.5°	10828.0	3969.5	1622.3	1309.1	1252.8	1351.3	1439.3	1474.5	1449.8	1566.0	1580.0
70°	8072.6	3212.9	1449.8	1157.8	1115.5	1203.5	1284.4	1298.5	1302.0	1439.3	1453.4
72.5°	5148.3	2498.5	1221.1	988.8	957.2	1024.0	1083.9	1140.2	1164.8	1295.0	1291.5
75°	2871.5	1858.0	981.8	837.5	781.2	834.0	904.4	971.2	1041.6	1231.7	1252.8
77.5°	1653.9	1305.6	777.7	672.1	605.3	661.6	721.4	816.4	1027.6	1192.9	1171.8
80°	932.5	848.1	587.7	492.7	450.4	492.7	538.4	717.9	809.4	879.8	890.3
82.5°	436.4	475.1	401.2	302.6	302.6	330.8	373.0	556.0	612.3	499.7	436.4
85°	158.4	214.7	197.1	154.8	137.2	133.7	232.3	316.7	197.1	176.0	151.3
87.5°	42.2	59.8	56.3	38.7	21.1	17.6	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)