

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: P641160

Luminaire Tested: GWS-SA5F-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641160
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-SA5F-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41920.3 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

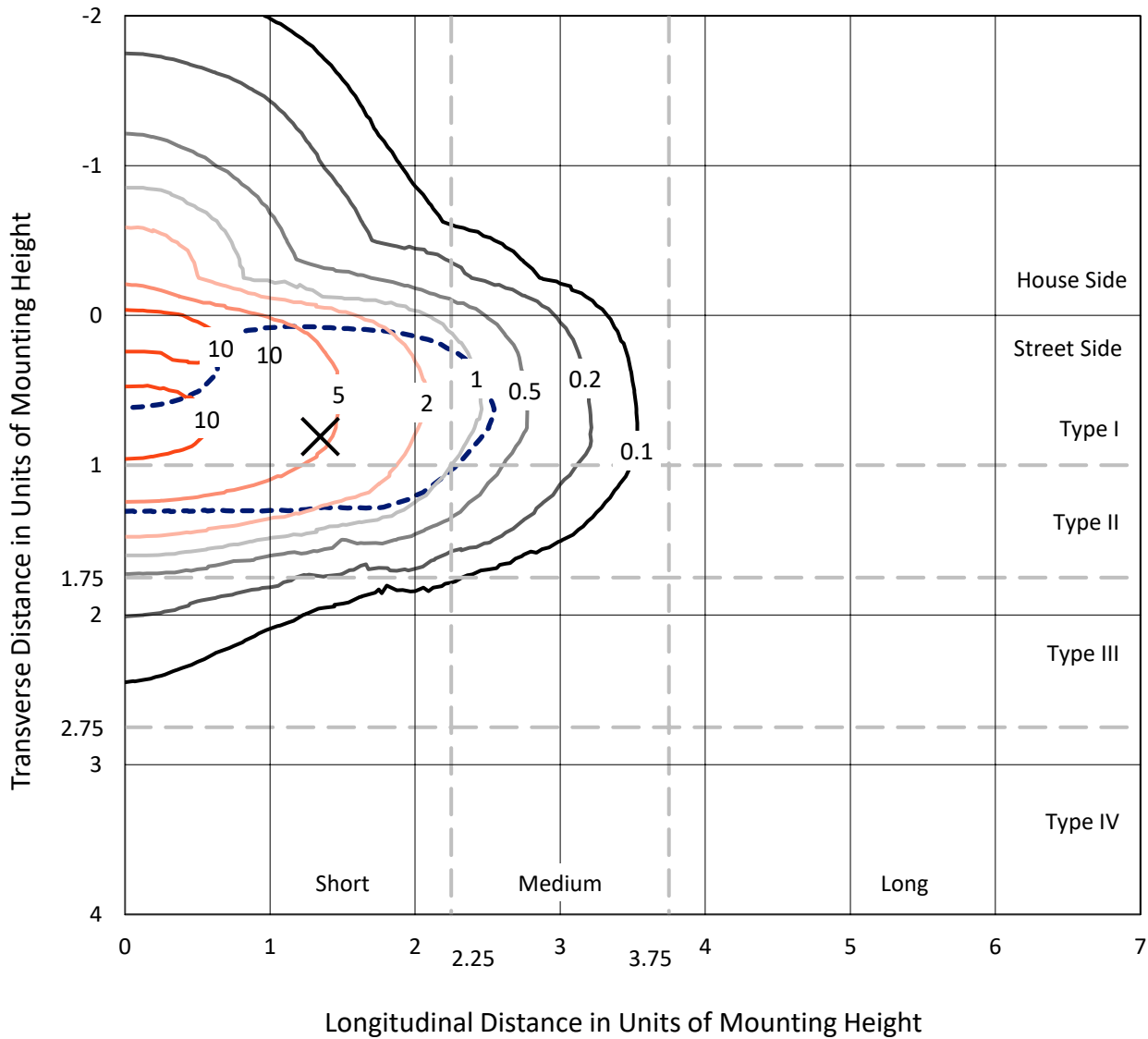
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

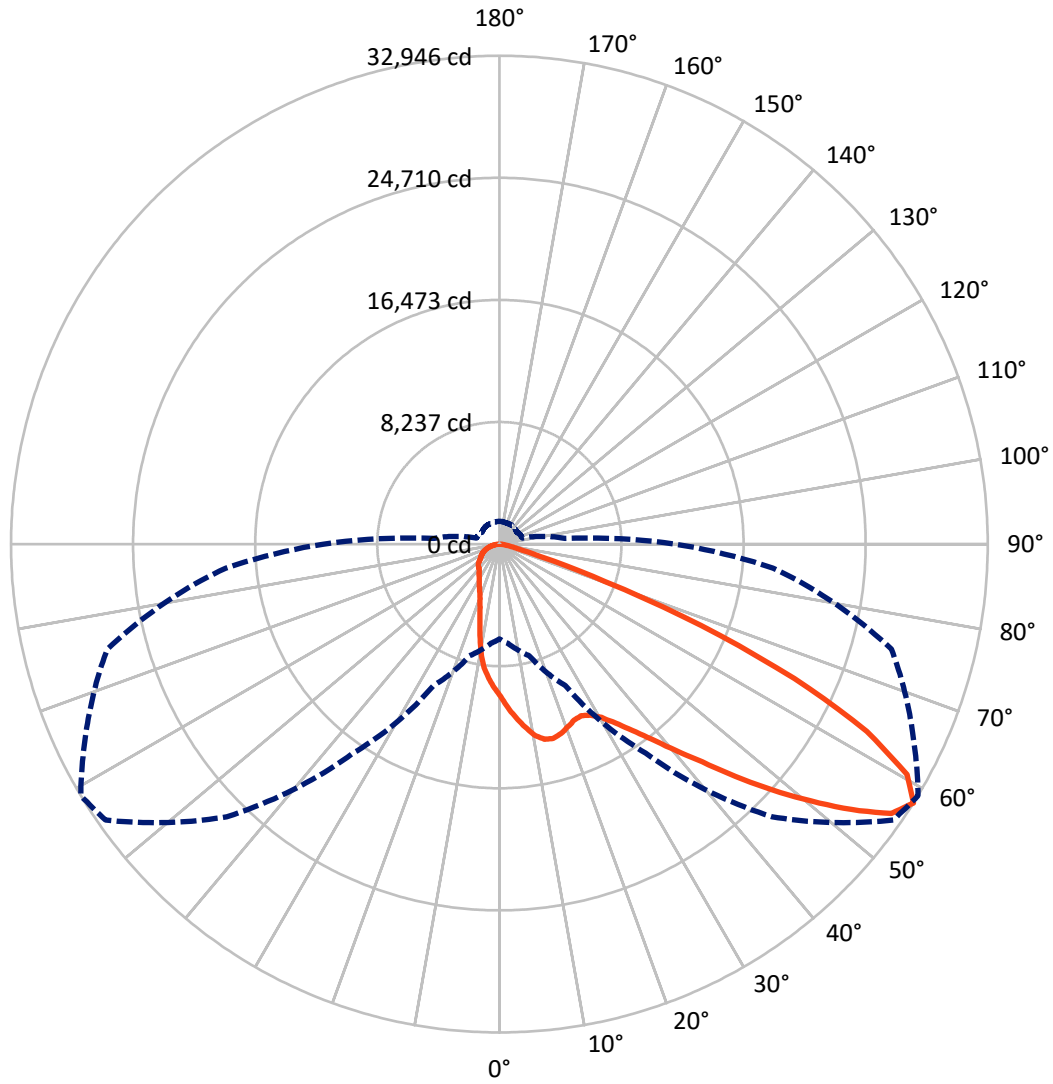
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14 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	6505.8	0.0	6505.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	35414.5	0.0	35414.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	41920.3	0.0	41920.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.5	2.3
10°-20°	2421.2	5.8
20°-30°	3924.8	9.4
30°-40°	6313.6	15.1
40°-50°	9804.5	23.4
50°-60°	10560.7	25.2
60°-70°	6129.0	14.6
70°-80°	1600.0	3.8
80°-90°	210.8	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°	41920.3	100.0
0°-180°	41920.3	100.0

Coefficient of Utilization



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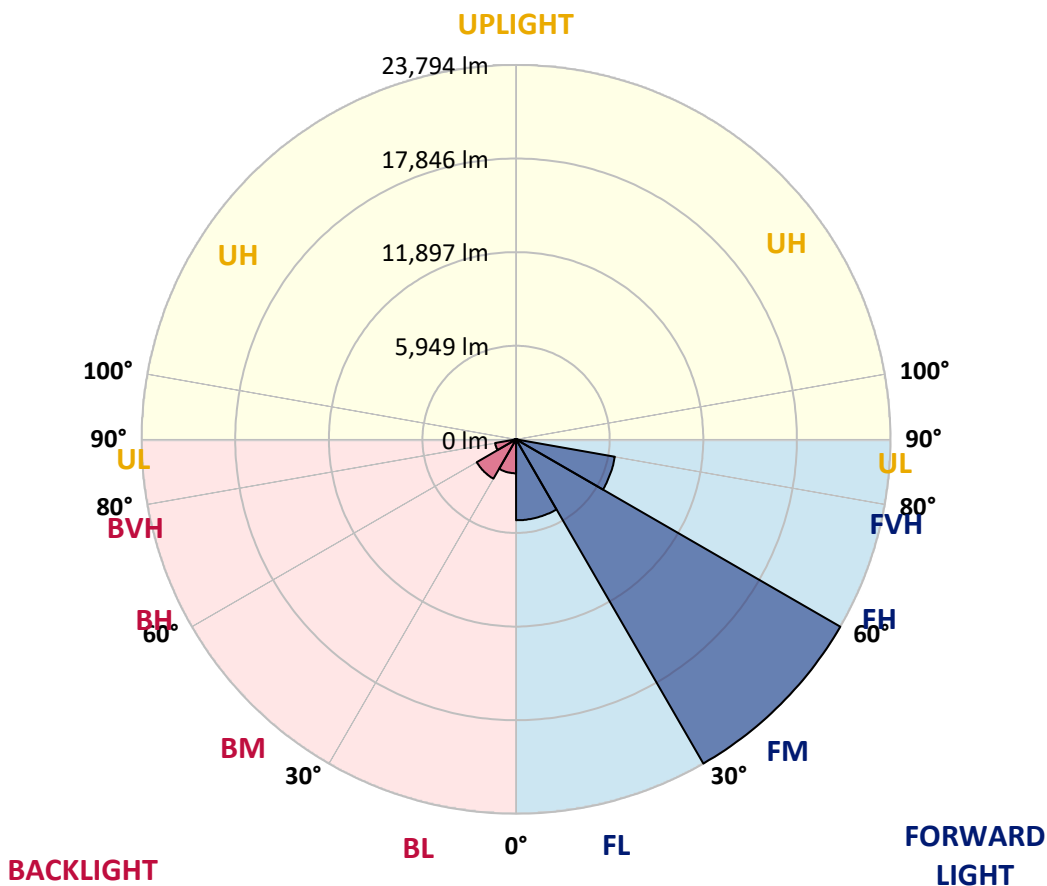
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5143.2	12.3			
FM (30°-60°)	23794.4	56.8			
FH (60°-80°)	6375.9	15.2			G3/7500
FVH (80°-90°)	100.9	0.2			G2/225
BL (0°-30°)	2158.4	5.1	B3/2500		
BM (30°-60°)	2884.4	6.9	B3/5000		
BH (60°-80°)	1353.2	3.2	B3/2500		G3/2500
BVH (80°-90°)	109.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6
2.5°	11671.7	11574.3	11642.2	11521.2	11471.0	11338.2	11167.1	11052.0	10874.9	10644.7	10444.1
5°	12831.5	12763.6	12778.4	12648.5	12533.5	12312.1	11960.9	11766.2	11465.1	11001.8	10571.0
7.5°	12796.1	12875.8	12920.1	13032.2	13064.7	13044.0	12728.2	12456.7	12126.2	11429.7	10780.5
10°	11471.0	11621.6	11757.3	12141.0	12607.2	13197.5	13271.2	13108.9	12775.4	11975.7	11031.3
12.5°	10027.9	10143.0	10264.0	10724.4	11438.6	12619.0	13418.8	13519.1	13386.3	12515.7	11314.6
15°	9319.7	9372.8	9487.9	9791.9	10361.4	11671.7	13162.0	13601.8	13840.8	13088.3	11633.4
17.5°	9290.2	9313.8	9369.8	9532.2	9927.6	10939.8	12698.7	13436.5	14197.9	13693.3	12005.2
20°	9901.0	9839.1	9803.7	9800.7	9995.5	10694.9	12250.1	13170.9	14366.1	14313.0	12403.6
22.5°	10748.0	10768.7	10691.9	10503.1	10479.5	10869.0	12025.9	12902.3	14416.3	14861.9	12772.5
25°	11949.1	12052.4	11825.2	11465.1	11288.1	11373.7	12164.6	12819.7	14410.4	15319.3	13002.7
27.5°	13350.9	13430.6	13200.4	12728.2	12362.3	12155.7	12577.7	13064.7	14460.5	15714.8	13141.4
30°	14947.5	14974.0	14658.3	14162.5	13628.3	13185.7	13265.3	13569.3	14717.3	16234.2	13303.7
32.5°	16898.2	17010.3	16532.2	15747.2	15000.6	14434.0	14189.0	14383.8	15272.1	16848.0	13554.5
35°	19374.2	19412.5	18804.6	17680.2	16623.7	15838.7	15325.2	15428.5	16116.1	17706.8	13932.3
37.5°	21708.5	21746.9	21100.6	20055.9	18544.9	17470.7	16727.0	16679.8	17196.2	18919.7	14549.1
40°	23190.0	23299.2	23010.0	22354.8	20911.7	19462.7	18453.4	18291.1	18612.8	20404.1	15407.9
42.5°	23986.8	24034.0	24028.1	24113.7	23254.9	21814.8	20401.2	20076.5	20292.0	22006.6	16275.5
45°	23992.7	24110.7	24426.5	25249.9	25288.2	24391.1	22862.4	22354.8	22157.1	23620.9	17181.5
47.5°	22918.5	23045.4	23913.0	25533.2	26728.4	26932.0	25810.6	24792.5	23960.2	25010.8	17925.2
50°	19666.3	19985.1	21637.7	24503.2	27011.7	28968.3	28623.0	27241.9	25562.7	26085.1	18391.5
52.5°	16842.1	16830.3	17848.4	21593.4	25828.3	29865.5	31344.0	29762.2	27147.5	26766.8	18509.5
55°	12332.8	12400.7	13442.4	16514.5	22670.6	28997.8	32840.2	32081.8	28965.4	27129.8	18462.3
57.5°	6395.1	6731.5	7799.8	10538.5	17225.8	26011.3	32441.8	32946.4	30812.8	27386.5	18524.3
60°	3231.5	3166.6	3550.2	5031.7	9980.7	20315.6	29986.4	31594.8	31146.2	27587.2	18562.6
62.5°	2157.3	2139.6	2033.3	2331.4	4078.5	12031.8	25562.7	27817.4	28829.6	27115.0	18072.7
65°	1868.1	1832.7	1637.9	1626.1	1980.2	4990.4	18736.7	21867.9	23827.4	25016.7	16901.1
67.5°	1682.1	1629.0	1431.3	1333.9	1422.4	2192.7	10559.1	14667.1	17594.6	21156.7	14333.6
70°	1502.1	1475.6	1277.8	1136.2	1127.3	1336.9	3889.6	7569.7	10765.7	14434.0	10479.5
72.5°	1345.7	1298.5	1130.3	994.5	926.7	947.3	1688.0	2915.7	5571.7	9003.9	6268.2
75°	1165.7	1130.3	982.7	847.0	764.3	693.5	1029.9	1348.7	2540.9	4279.1	2960.0
77.5°	900.1	876.5	776.1	672.9	625.6	516.4	625.6	849.9	1174.6	1803.1	1540.5
80°	522.4	537.1	578.4	525.3	460.4	368.9	407.3	489.9	705.3	976.8	873.5
82.5°	262.7	280.4	374.8	304.0	274.5	215.4	242.0	289.2	368.9	540.1	342.3
85°	20.7	20.7	67.9	76.7	94.4	76.7	97.4	118.0	168.2	215.4	115.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	14.8	26.6	50.2	32.5
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°	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6	10290.6
2.5°	10308.3	10157.8	9977.8	9830.2	9603.0	9482.0	9328.5	9139.7	9062.9	9027.5	9006.9
5°	10329.0	10063.4	9679.7	9325.6	8933.1	8623.2	8277.9	7917.9	7711.3	7661.1	7625.7
7.5°	10405.7	10033.8	9423.0	8838.6	8109.7	7433.9	6775.8	6123.6	5790.1	5663.2	5651.4
10°	10511.9	10022.0	9163.3	8192.3	6961.7	5893.4	5123.2	4612.6	4397.2	4326.4	4302.7
12.5°	10644.7	10013.2	8820.9	7295.2	5636.7	4627.4	4187.7	4105.0	4134.5	4128.6	4128.6
15°	10812.9	10025.0	8407.8	6280.0	4559.5	4016.5	4025.3	4122.7	4214.2	4229.0	4229.0
17.5°	10995.9	10013.2	7808.7	5261.9	3913.2	3871.9	4007.6	4143.4	4226.0	4237.8	4237.8
20°	11193.6	9957.1	7053.2	4302.7	3629.9	3780.4	3928.0	4034.2	4084.4	4096.2	4096.2
22.5°	11311.7	9797.8	6232.8	3641.7	3449.9	3635.8	3733.2	3842.4	3848.3	3753.8	3750.9
25°	11294.0	9499.7	5297.3	3216.7	3258.0	3420.4	3544.3	3467.6	3373.1	3320.0	3311.2
27.5°	11181.8	9051.1	4344.1	2895.1	3030.8	3213.8	3175.4	3110.5	3086.9	3027.9	3022.0
30°	11040.2	8499.3	3488.2	2644.2	2794.7	2962.9	2903.9	2898.0	2874.4	2809.5	2809.5
32.5°	10904.4	7929.7	2841.9	2458.3	2644.2	2656.0	2738.7	2744.6	2732.7	2620.6	2608.8
35°	10866.1	7360.1	2405.2	2310.7	2496.7	2490.8	2608.8	2605.8	2402.2	2245.8	2242.9
37.5°	10981.2	6781.7	2145.5	2189.7	2293.0	2369.8	2464.2	2293.0	2225.2	2130.7	2124.8
40°	11226.1	6247.5	2012.7	2118.9	2163.2	2275.3	2127.8	2139.6	2121.9	2051.0	2042.2
42.5°	11550.7	5793.1	1938.9	2095.3	2089.4	2118.9	1956.6	2003.8	2030.4	1977.3	1968.4
45°	11863.5	5397.6	1900.5	2006.8	2036.3	1865.1	1832.7	1876.9	1918.2	1897.6	1888.7
47.5°	12093.7	5055.3	1879.9	1885.8	1968.4	1779.5	1726.4	1747.1	1797.2	1806.1	1803.1
50°	12164.6	4763.1	1856.3	1785.4	1767.7	1693.9	1652.6	1646.7	1705.8	1747.1	1753.0
52.5°	12028.8	4503.4	1794.3	1696.9	1611.3	1623.1	1608.4	1578.9	1637.9	1693.9	1699.9
55°	11828.1	4355.9	1696.9	1611.3	1511.0	1558.2	1564.1	1537.5	1575.9	1614.3	1614.3
57.5°	11842.9	4441.5	1602.5	1531.6	1422.4	1484.4	1516.9	1505.1	1505.1	1534.6	1537.5
60°	11940.3	4565.4	1540.5	1431.3	1333.9	1398.8	1472.6	1460.8	1434.2	1472.6	1472.6
62.5°	11659.9	4400.1	1499.2	1333.9	1239.5	1316.2	1404.7	1398.8	1369.3	1431.3	1437.2
65°	10833.6	3957.5	1452.0	1212.9	1145.0	1233.6	1310.3	1331.0	1304.4	1387.0	1401.8
67.5°	9080.6	3328.9	1360.5	1097.8	1050.6	1133.2	1207.0	1236.5	1215.9	1313.3	1325.1
70°	6769.9	2694.4	1215.9	970.9	935.5	1009.3	1077.2	1089.0	1091.9	1207.0	1218.8
72.5°	4317.5	2095.3	1024.0	829.3	802.7	858.8	908.9	956.2	976.8	1086.0	1083.1
75°	2408.1	1558.2	823.4	702.4	655.2	699.4	758.4	814.5	873.5	1032.9	1050.6
77.5°	1387.0	1094.9	652.2	563.7	507.6	554.8	605.0	684.7	861.7	1000.4	982.7
80°	782.0	711.2	492.8	413.2	377.7	413.2	451.5	602.0	678.8	737.8	746.6
82.5°	365.9	398.4	336.4	253.8	253.8	277.4	312.8	466.3	513.5	419.1	365.9
85°	132.8	180.0	165.3	129.8	115.1	112.1	194.8	265.6	165.3	147.6	126.9
87.5°	35.4	50.2	47.2	32.5	17.7	14.8	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)