

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: P637721

Luminaire Tested: GWS-SA4D-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23963.7 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

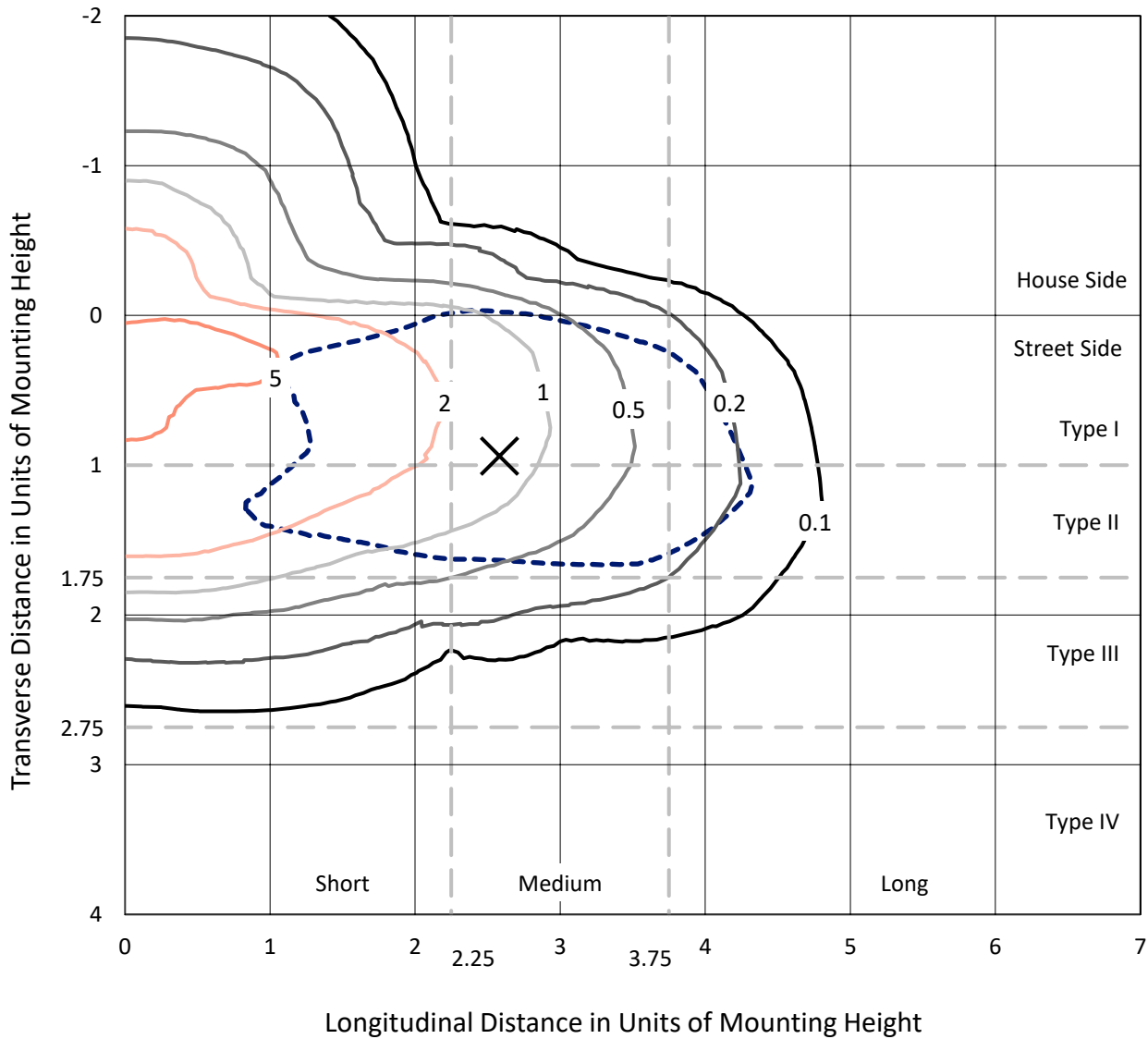
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

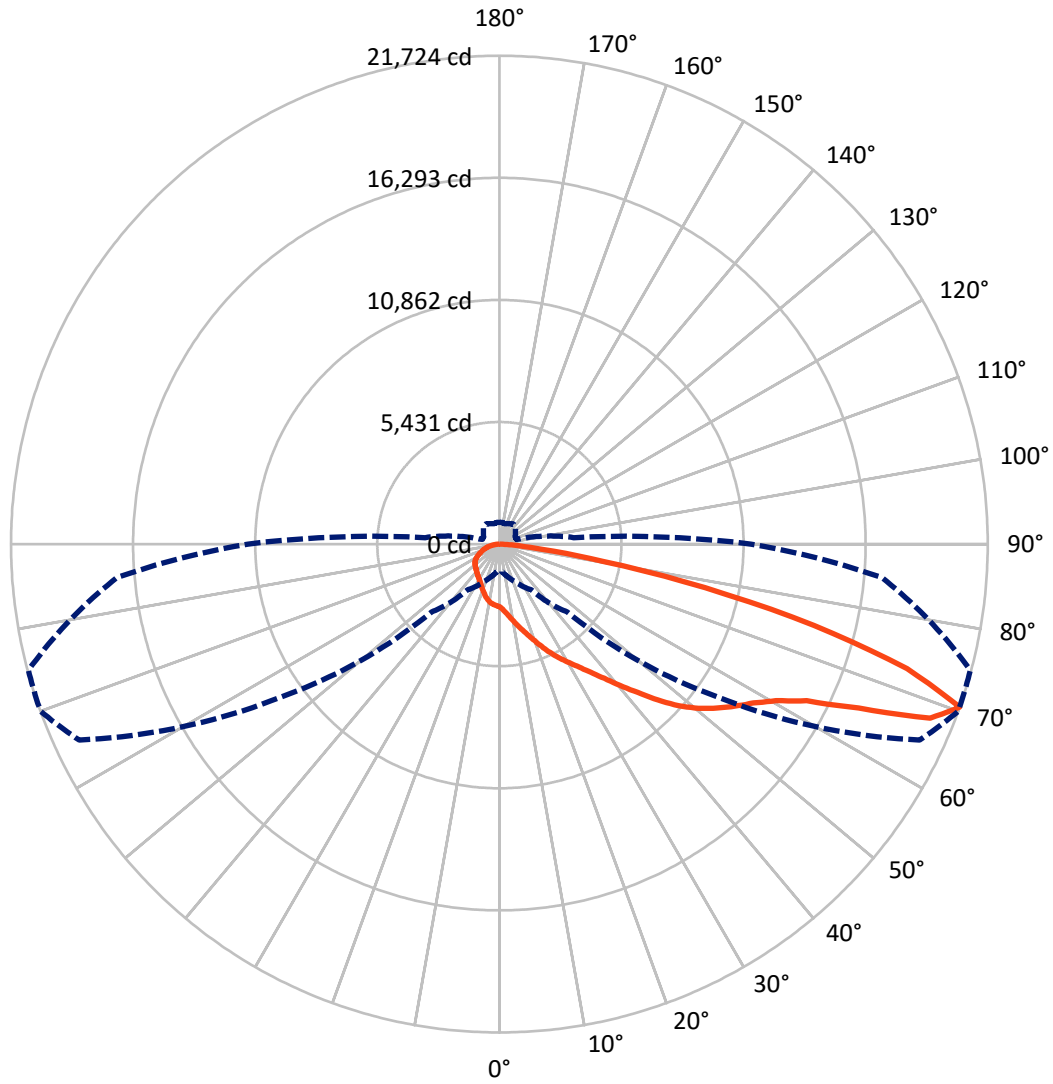
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GWS-SA4D-735-U-T2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4294.3	0.0	4294.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	19669.3	0.0	19669.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	23963.7	0.0	23963.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.2
10°-20°	924.0	3.9
20°-30°	1636.9	6.8
30°-40°	2463.6	10.3
40°-50°	3727.1	15.6
50°-60°	5339.3	22.3
60°-70°	5902.0	24.6
70°-80°	3330.6	13.9
80°-90°	356.3	1.5
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°	23963.7	100.0
0°-180°	23963.7	100.0

Coefficient of Utilization



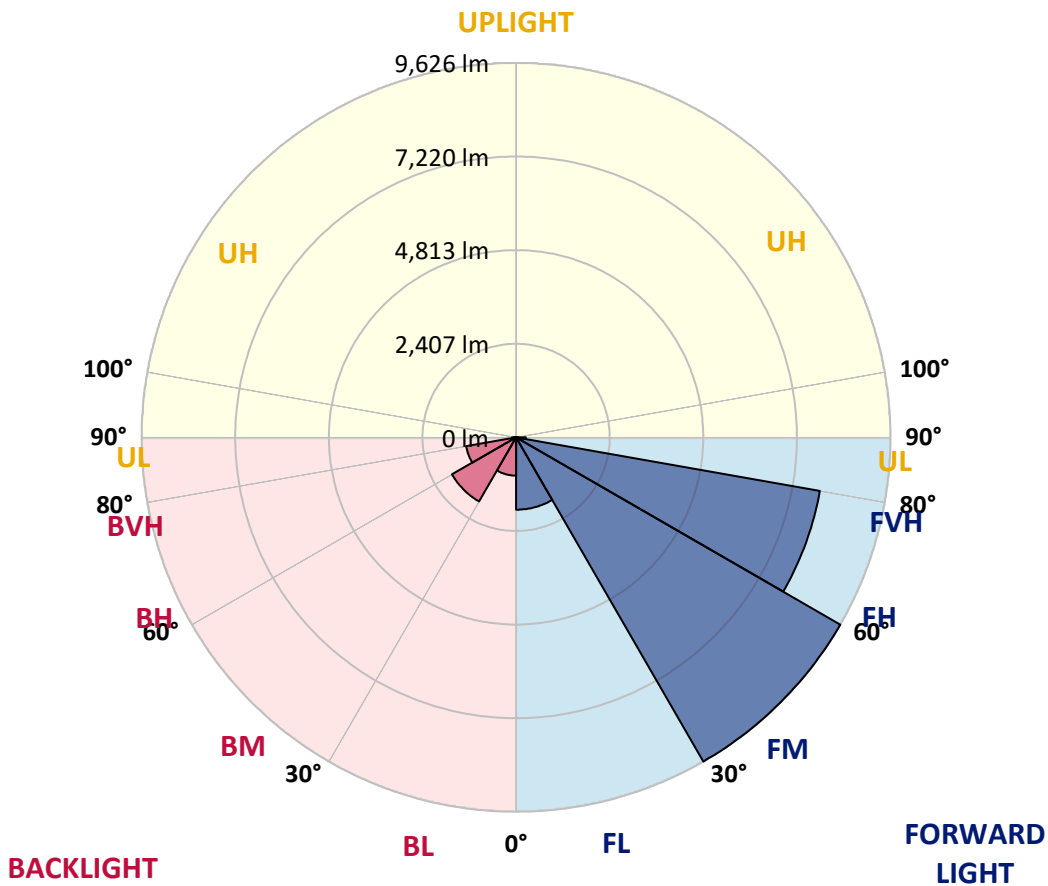
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.3	7.8			
FM (30°-60°)	9626.2	40.2			
FH (60°-80°)	7931.0	33.1			G4/12000
FVH (80°-90°)	251.8	1.1			G3/500
BL (0°-30°)	984.6	4.1	B2/1000		
BM (30°-60°)	1903.7	7.9	B2/2500		
BH (60°-80°)	1301.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	104.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7
2.5°	3095.9	3090.8	3094.2	3090.8	3071.7	3025.0	2986.9	2938.4	2905.5	2886.4	2841.4
5°	3459.6	3454.4	3442.2	3424.9	3390.3	3326.2	3231.0	3125.4	3061.3	3012.8	2917.6
7.5°	3721.0	3721.0	3719.3	3698.5	3674.3	3606.7	3494.2	3355.7	3262.2	3179.1	3023.2
10°	3854.4	3863.0	3875.1	3904.6	3899.4	3863.0	3757.4	3608.5	3490.7	3393.8	3161.7
12.5°	3927.1	3932.3	3953.0	4013.6	4076.0	4084.6	4022.3	3866.5	3738.3	3608.5	3315.8
15°	4020.6	4022.3	4050.0	4122.7	4214.5	4306.3	4290.7	4134.9	4003.3	3859.5	3487.3
17.5°	4093.3	4105.4	4155.6	4240.5	4354.8	4481.2	4557.3	4460.4	4297.6	4133.1	3674.3
20°	4119.3	4127.9	4193.7	4323.6	4479.4	4657.8	4827.5	4801.5	4637.0	4443.1	3885.5
22.5°	4212.8	4212.8	4261.3	4370.3	4553.9	4813.6	5088.9	5156.4	5011.0	4784.2	4112.3
25°	4418.8	4411.9	4434.4	4479.4	4617.9	4938.3	5346.9	5549.5	5386.7	5132.2	4339.2
27.5°	4701.1	4697.6	4695.9	4702.8	4749.5	5047.4	5565.1	5916.6	5753.8	5466.4	4541.8
30°	5007.5	4997.1	5019.7	4998.9	4988.5	5177.2	5750.4	6245.6	6119.2	5797.1	4709.7
32.5°	5424.8	5405.8	5400.6	5333.1	5291.5	5379.8	5899.3	6619.6	6519.2	6153.8	4898.5
35°	5975.5	5958.1	5869.8	5762.5	5639.5	5681.1	6084.5	6984.9	6991.9	6600.5	5146.1
37.5°	6531.3	6534.7	6465.5	6212.7	6086.3	6062.0	6366.8	7429.9	7578.8	7133.8	5466.4
40°	6993.6	7014.4	7014.4	6747.7	6559.0	6536.5	6763.3	7958.0	8254.1	7788.4	5871.6
42.5°	7345.1	7364.1	7424.7	7232.5	7033.4	7111.3	7244.7	8487.9	9019.5	8597.0	6384.1
45°	7731.2	7746.8	7779.7	7668.9	7552.9	7760.6	7790.1	9121.6	9895.6	9504.3	6979.7
47.5°	8243.7	8229.9	8233.3	8152.0	8061.9	8397.8	8390.9	9654.9	10742.3	10498.2	7625.6
50°	8880.9	8906.9	8882.7	8721.6	8616.0	8922.5	8962.3	10245.4	11486.9	11481.7	8276.6
52.5°	9493.9	9504.3	9632.4	9639.3	9422.9	9358.8	9462.7	10841.0	12115.4	12382.1	8901.7
55°	9525.1	9564.9	9949.3	10226.3	10576.1	10061.8	9968.3	11408.9	12723.2	13263.4	9551.0
57.5°	8861.9	8926.0	9578.7	10176.1	11149.2	11268.7	10834.1	12143.1	13330.9	14130.9	10302.5
60°	7445.5	7578.8	8465.4	9379.6	10891.2	12136.2	12605.4	13140.5	14129.2	15017.4	11215.0
62.5°	4754.7	4806.7	6049.9	7580.6	9729.4	12051.3	14534.3	14897.9	15344.7	16172.3	12621.0
65°	2380.8	2547.1	3276.0	4524.4	7016.1	10619.4	15509.2	18116.8	17569.7	18149.7	14899.7
67.5°	1615.5	1669.2	2038.0	2718.5	4114.1	7523.4	14904.9	20828.4	20667.4	20762.6	17329.0
70°	1191.3	1225.9	1516.8	1925.4	2488.2	4271.6	11866.1	20624.1	21723.6	21688.9	17074.5
72.5°	869.2	886.5	1106.4	1470.1	1844.1	2209.4	7246.4	16660.6	18963.5	19962.6	14932.6
75°	632.0	652.8	768.8	1099.5	1433.7	1378.3	3577.3	12034.0	14461.6	16383.6	12165.6
77.5°	471.0	496.9	550.6	689.1	1004.3	987.0	1546.2	7814.3	9353.6	10700.8	7390.1
80°	339.4	344.6	375.7	441.5	637.2	578.3	735.9	4074.3	4671.6	5118.4	2896.8
82.5°	206.1	211.2	251.1	271.8	394.8	363.6	382.7	1319.4	1890.8	2006.8	1082.2
85°	60.6	64.1	114.3	124.7	164.5	155.8	154.1	536.8	640.7	819.0	426.0
87.5°	0.0	0.0	0.0	0.0	1.7	10.4	19.0	95.2	143.7	199.1	103.9
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°	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7
2.5°	2824.1	2784.3	2763.5	2727.1	2701.2	2675.2	2649.2	2625.0	2614.6	2599.0	2602.5
5°	2874.3	2812.0	2749.6	2678.7	2618.0	2567.8	2522.8	2483.0	2465.7	2450.1	2457.0
7.5°	2950.5	2857.0	2737.5	2607.7	2512.4	2443.2	2396.4	2368.7	2360.1	2347.9	2347.9
10°	3047.5	2907.2	2697.7	2512.4	2398.1	2342.7	2322.0	2320.2	2328.9	2330.6	2327.2
12.5°	3154.8	2955.7	2638.8	2399.9	2302.9	2285.6	2301.2	2330.6	2360.1	2375.6	2372.2
15°	3265.6	2986.9	2538.4	2292.5	2233.7	2256.2	2306.4	2365.2	2422.4	2451.8	2450.1
17.5°	3369.5	2993.8	2408.5	2188.6	2173.1	2230.2	2316.8	2408.5	2486.5	2528.0	2529.7
20°	3485.5	2981.7	2275.2	2095.1	2112.4	2205.9	2320.2	2431.0	2522.8	2564.4	2574.8
22.5°	3591.2	2940.1	2145.3	2006.8	2060.5	2176.5	2292.5	2396.4	2477.8	2517.6	2531.5
25°	3686.4	2860.5	2003.4	1932.4	2020.7	2135.0	2223.3	2296.0	2353.1	2377.4	2396.4
27.5°	3738.3	2741.0	1896.0	1873.5	1982.6	2076.1	2124.6	2147.1	2166.1	2159.2	2173.1
30°	3748.7	2592.1	1802.5	1826.7	1925.4	1994.7	2005.1	1982.6	1949.7	1896.0	1908.1
32.5°	3738.3	2420.7	1724.6	1776.5	1861.4	1902.9	1889.1	1830.2	1750.6	1667.4	1672.6
35°	3741.8	2247.5	1660.5	1721.1	1786.9	1809.4	1774.8	1693.4	1608.6	1532.4	1528.9
37.5°	3779.9	2102.1	1606.8	1667.4	1714.2	1717.7	1679.6	1594.7	1551.4	1494.3	1487.4
40°	3885.5	1994.7	1558.4	1613.8	1643.2	1641.5	1598.2	1537.6	1567.0	1548.0	1542.8
42.5°	4058.7	1928.9	1518.5	1556.6	1577.4	1580.9	1546.2	1508.1	1572.2	1548.0	1539.3
45°	4337.4	1925.4	1490.8	1499.5	1532.4	1556.6	1532.4	1489.1	1513.3	1395.6	1373.1
47.5°	4668.2	1984.3	1470.1	1449.3	1506.4	1549.7	1511.6	1442.4	1392.1	1284.8	1269.2
50°	5066.4	2103.8	1451.0	1395.6	1468.3	1523.7	1485.6	1390.4	1314.2	1257.1	1248.4
52.5°	5539.1	2261.4	1426.8	1335.0	1411.2	1509.9	1485.6	1385.2	1284.8	1232.8	1224.2
55°	6034.3	2443.2	1399.1	1262.3	1347.1	1513.3	1497.8	1348.8	1262.3	1234.6	1227.6
57.5°	6649.0	2661.3	1348.8	1177.4	1290.0	1482.2	1449.3	1328.1	1246.7	1224.2	1217.3
60°	7447.2	2985.1	1253.6	1090.9	1224.2	1426.8	1406.0	1293.4	1205.1	1186.1	1180.9
62.5°	8711.2	3534.0	1137.6	1007.7	1146.3	1310.8	1341.9	1227.6	1153.2	1151.5	1149.7
65°	10771.7	4193.7	1000.8	933.3	1064.9	1215.5	1257.1	1160.1	1099.5	1118.6	1116.8
67.5°	12215.8	4250.9	888.3	855.4	969.6	1111.6	1172.2	1090.9	1025.1	1061.4	1059.7
70°	11189.0	3315.8	791.3	774.0	867.5	999.1	1080.5	1004.3	938.5	973.1	966.2
72.5°	9436.8	2541.9	699.5	689.1	763.6	881.3	962.7	917.7	848.4	848.4	832.9
75°	7584.0	2096.9	602.6	597.4	647.6	761.9	853.6	777.4	713.4	709.9	699.5
77.5°	4349.6	1374.8	505.6	502.1	517.7	637.2	663.2	647.6	599.1	576.6	569.7
80°	1733.2	715.1	398.2	375.7	391.3	467.5	522.9	496.9	455.4	427.7	412.1
82.5°	671.8	358.4	280.5	245.9	268.4	337.6	379.2	370.5	342.8	280.5	263.2
85°	273.6	174.9	168.0	142.0	155.8	181.8	218.2	188.7	155.8	110.8	105.6
87.5°	72.7	64.1	62.3	38.1	29.4	8.7	1.7	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)