

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P454636

Luminaire Tested: **GALN-SA5D-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34970 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

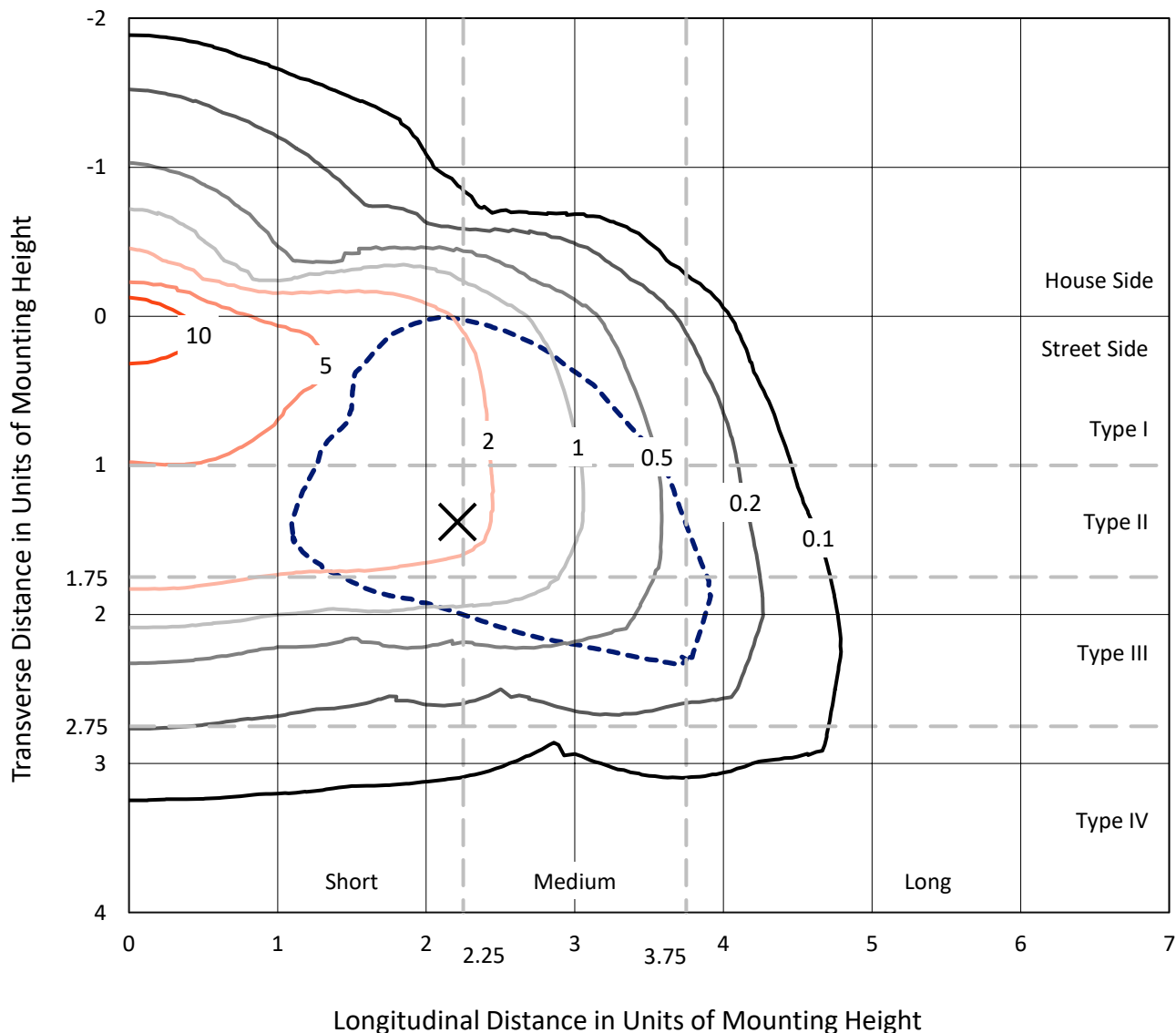
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

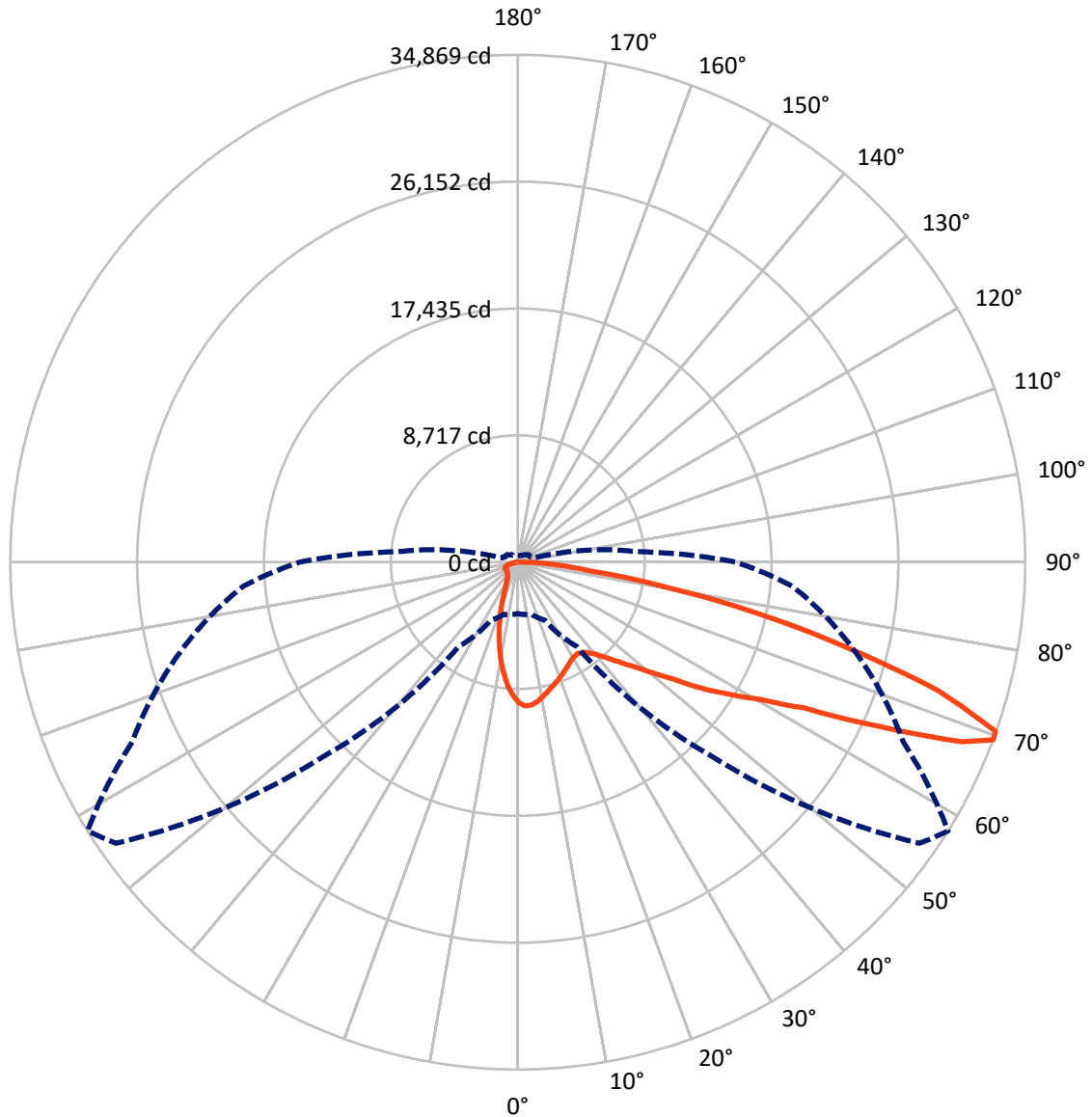
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5124.8	0.0	5124.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	29845.2	0.0	29845.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	34970.0	0.0	34970.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.7	2.3
10°-20°	1802.1	5.2
20°-30°	2328.3	6.7
30°-40°	3024.0	8.6
40°-50°	4396.5	12.6
50°-60°	7015.3	20.1
60°-70°	9371.6	26.8
70°-80°	5402.4	15.4
80°-90°	809.2	2.3
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°	34970.0	100.0
0°-180°	34970.0	100.0



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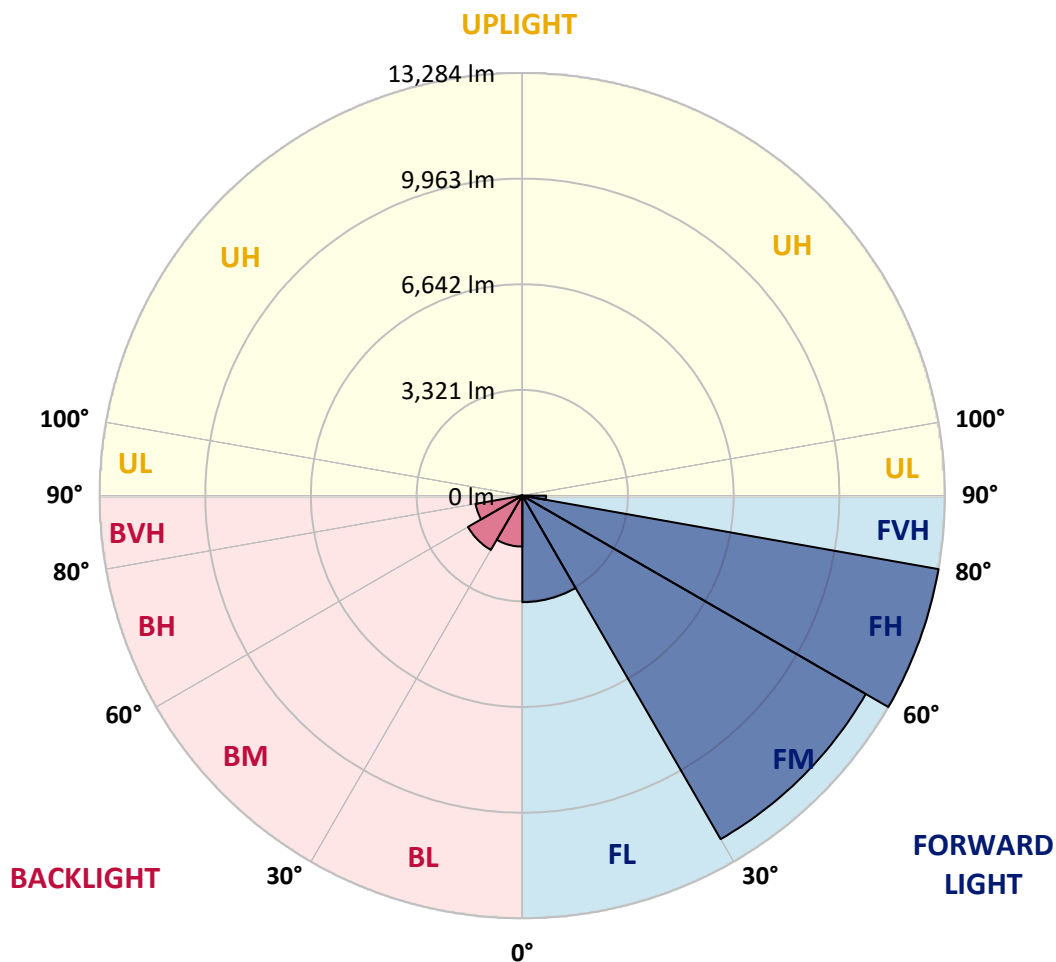
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3349.2	9.6			
FM	(30°-60°)	12465.0	35.6			
FH	(60°-80°)	13283.8	38.0			G5
FVH	(80°-90°)	747.2	2.1			G4/750
BL	(0°-30°)	1601.8	4.6	B3/2500		
BM	(30°-60°)	1970.8	5.6	B2/2500		
BH	(60°-80°)	1490.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	62.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7
2.5°	10022.5	10049.8	10042.0	10032.3	10016.7	9973.8	9903.5	9891.8	9847.0	9751.4	9632.5
5°	9868.4	9891.8	9893.8	9907.4	9926.9	9919.1	9868.4	9862.6	9796.3	9667.6	9468.6
7.5°	9339.9	9371.1	9439.4	9515.4	9583.7	9648.1	9663.7	9673.4	9632.5	9484.2	9219.0
10°	8745.1	8776.3	8807.5	8920.6	9088.3	9248.3	9380.9	9398.4	9408.2	9271.7	8947.9
12.5°	8085.9	8150.2	8216.5	8384.3	8608.6	8860.1	9094.2	9131.2	9197.5	9094.2	8713.9
15°	7526.1	7592.5	7688.0	7838.2	8109.3	8472.0	8801.6	8862.1	8992.8	8940.1	8495.4
17.5°	7138.0	7161.4	7227.8	7399.4	7691.9	8074.2	8514.9	8635.9	8844.5	8830.9	8308.2
20°	6831.8	6861.1	6902.1	7007.4	7311.6	7715.3	8247.8	8403.8	8686.6	8733.4	8122.9
22.5°	6703.1	6724.6	6718.7	6775.3	6982.0	7387.7	7976.7	8161.9	8546.1	8667.1	7951.3
25°	6710.9	6730.4	6701.2	6687.5	6810.4	7099.0	7693.9	7929.9	8433.0	8622.2	7795.3
27.5°	6841.6	6855.3	6800.6	6746.0	6755.8	6919.6	7459.8	7721.2	8337.5	8641.7	7664.6
30°	7017.1	7042.5	7007.4	6941.1	6868.9	6876.7	7309.7	7567.1	8292.6	8710.0	7602.2
32.5°	7243.4	7266.8	7251.2	7198.5	7104.9	7001.5	7272.6	7510.5	8296.5	8848.4	7588.6
35°	7481.3	7528.1	7553.5	7549.6	7473.5	7294.1	7418.9	7615.9	8390.1	9080.5	7668.5
37.5°	7750.4	7789.4	7898.7	7968.9	7898.7	7690.0	7748.5	7885.0	8596.9	9416.0	7844.0
40°	8011.8	8070.3	8230.2	8448.6	8421.3	8238.0	8251.7	8341.4	8961.6	9915.2	8187.3
42.5°	8284.8	8355.0	8633.9	8957.7	9022.0	8879.6	8916.7	8996.7	9480.3	10607.6	8776.3
45°	8635.9	8719.7	9063.0	9466.7	9720.2	9632.5	9737.8	9776.8	10174.6	11508.6	9552.5
47.5°	9088.3	9185.8	9609.1	10112.2	10471.1	10551.0	10734.4	10711.0	11034.7	12575.4	10558.8
50°	9850.9	9905.5	10305.3	10818.2	11311.7	11672.5	11871.4	11908.4	12101.5	13613.0	11684.2
52.5°	10757.8	10806.5	11095.2	11543.7	12162.0	12926.5	13418.0	13297.0	13343.8	14876.8	13000.6
55°	11777.8	11859.7	12043.0	12341.4	13143.0	14268.3	15255.1	15284.4	14765.6	16085.9	14262.4
57.5°	12567.6	12706.1	13020.1	13445.3	14461.4	15760.3	17086.4	17105.9	16442.9	17377.0	15654.9
60°	12169.8	12333.6	13051.3	14086.9	16191.3	18363.9	19274.7	19163.5	18075.2	18847.6	17353.6
62.5°	10453.5	10482.8	11526.2	13144.9	16723.7	21847.1	22531.6	22061.6	20253.7	20712.0	19079.6
65°	6765.5	6956.7	7783.6	10051.8	14974.3	23779.8	28238.2	27151.9	23307.9	22828.1	20524.8
67.5°	4271.1	4222.4	4565.6	5739.7	10299.5	22077.2	33108.0	32936.4	27302.0	24164.0	20179.6
69°	3541.7	3596.3	3713.3	4399.8	7087.3	18849.5	33683.4	34869.1	29238.7	24058.7	18925.6
70°	3212.1	3237.5	3360.3	3900.6	5468.6	15787.6	32739.4	34816.5	29999.3	23617.9	18016.7
72.5°	2549.0	2547.1	2757.7	3245.3	4087.8	9012.3	26882.7	30227.5	29149.0	21566.2	14886.5
75°	1936.6	1967.8	2199.9	2746.0	3766.0	4924.5	18759.8	23278.6	23280.5	17033.8	9289.2
77.5°	1396.4	1415.9	1687.0	2305.2	3547.6	3992.2	12495.5	16696.4	15695.9	7805.0	2919.6
80°	914.7	926.4	1133.1	1825.5	3198.5	3766.0	7409.1	10219.5	7403.3	2071.2	965.4
82.5°	501.2	559.7	692.4	1181.9	2566.6	3479.3	4503.2	5172.2	2777.2	922.5	503.2
85°	251.6	267.2	390.1	690.4	1677.2	2878.6	3136.1	2966.4	1433.5	458.3	261.3
87.5°	74.1	93.6	161.9	267.2	680.6	1499.8	1745.5	1566.1	551.9	165.8	54.6
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°	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7	9663.7
2.5°	9583.7	9548.6	9392.6	9252.2	9123.4	8986.9	8871.8	8770.4	8780.2	8782.1	8678.8
5°	9365.3	9285.3	8988.9	8711.9	8477.9	8181.4	7927.9	7764.1	7682.2	7573.0	7612.0
7.5°	9068.8	8914.8	8503.2	8043.0	7612.0	7227.8	6810.4	6523.7	6340.4	6162.9	6186.3
10°	8762.6	8514.9	7916.2	7307.7	6749.9	6135.6	5603.2	5146.8	4807.5	4680.7	4596.8
12.5°	8448.6	8122.9	7362.3	6553.0	5782.6	5047.3	4292.6	3803.1	3428.6	3229.7	3255.0
15°	8161.9	7766.0	6785.0	5798.2	4797.7	3922.0	3169.2	2703.1	2441.8	2387.1	2418.4
17.5°	7896.7	7377.9	6244.8	5064.9	3896.7	2941.0	2381.3	2118.0	2012.7	1983.4	1981.5
20°	7623.7	7048.3	5638.3	4280.9	3036.6	2279.9	1954.2	1831.3	1811.8	1823.5	1825.5
22.5°	7346.7	6640.7	5014.2	3502.7	2418.4	1864.5	1708.4	1675.3	1690.9	1718.2	1722.1
25°	7091.2	6281.9	4413.5	2820.1	1930.8	1638.2	1562.2	1562.2	1597.3	1638.2	1640.2
27.5°	6880.6	5934.7	3814.8	2238.9	1616.8	1474.4	1449.1	1462.7	1511.5	1542.7	1544.6
30°	6707.0	5611.0	3249.2	1794.3	1421.8	1343.7	1337.9	1361.3	1396.4	1425.7	1427.6
32.5°	6576.4	5326.2	2720.6	1507.6	1287.2	1244.3	1242.3	1259.9	1279.4	1287.2	1295.0
35°	6525.7	5090.2	2237.0	1326.2	1197.5	1170.2	1170.2	1168.2	1176.0	1179.9	1183.8
37.5°	6566.6	4908.9	1862.5	1209.2	1131.2	1111.7	1100.0	1088.3	1084.4	1084.4	1086.3
40°	6740.2	4813.3	1583.6	1133.1	1084.4	1055.1	1033.7	1020.0	1006.3	1010.2	1014.1
42.5°	7108.8	4830.9	1394.5	1082.4	1043.4	1002.4	971.2	955.6	945.9	957.6	955.6
45°	7695.8	5006.4	1273.5	1047.3	1002.4	949.8	920.5	904.9	904.9	922.5	928.3
47.5°	8516.9	5341.8	1209.2	1020.0	971.2	908.8	879.6	867.9	871.8	901.0	903.0
50°	9519.3	5925.0	1197.5	1006.3	955.6	879.6	846.4	834.7	844.5	875.7	879.6
52.5°	10625.2	6675.8	1254.0	1008.3	942.0	862.0	819.1	801.6	811.3	836.7	844.5
55°	11935.7	7615.9	1400.3	1016.1	922.5	852.3	799.6	760.6	772.3	789.9	791.8
57.5°	13273.6	8801.6	1657.7	1018.0	906.9	834.7	766.5	715.8	715.8	727.5	733.3
60°	14908.0	10092.7	1997.1	1020.0	908.8	809.4	721.6	665.0	657.2	663.1	665.0
62.5°	16530.6	11173.2	2053.6	1014.1	928.3	784.0	672.8	614.3	600.7	598.7	594.8
65°	17246.4	10972.3	1683.1	986.8	949.8	768.4	633.8	565.6	542.2	534.4	534.4
67.5°	16080.1	9281.4	1265.7	949.8	936.1	752.8	596.8	524.6	497.3	481.7	481.7
69°	14984.0	8255.6	1137.0	924.4	901.0	727.5	573.4	503.2	470.0	452.5	446.6
70°	14137.6	7549.6	1082.4	903.0	867.9	698.2	555.8	487.6	450.5	431.0	427.1
72.5°	11282.4	5923.0	947.8	821.1	739.2	587.0	493.4	438.8	403.7	382.3	376.4
75°	6502.2	3210.2	786.0	713.8	594.8	456.4	417.4	382.3	355.0	335.4	329.6
77.5°	2001.0	1240.4	569.5	563.6	436.9	353.0	333.5	319.8	300.3	278.9	275.0
80°	842.5	631.9	386.2	380.3	290.6	245.7	239.9	237.9	230.1	212.6	206.7
82.5°	462.2	356.9	269.1	234.0	175.5	142.4	148.2	150.2	144.3	126.8	115.1
85°	226.2	195.0	130.7	105.3	80.0	50.7	48.8	58.5	54.6	39.0	42.9
87.5°	44.9	54.6	35.1	15.6	7.8	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)