

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: P951317

Luminaire Tested: **GALN-SB5C-730-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29141 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): 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

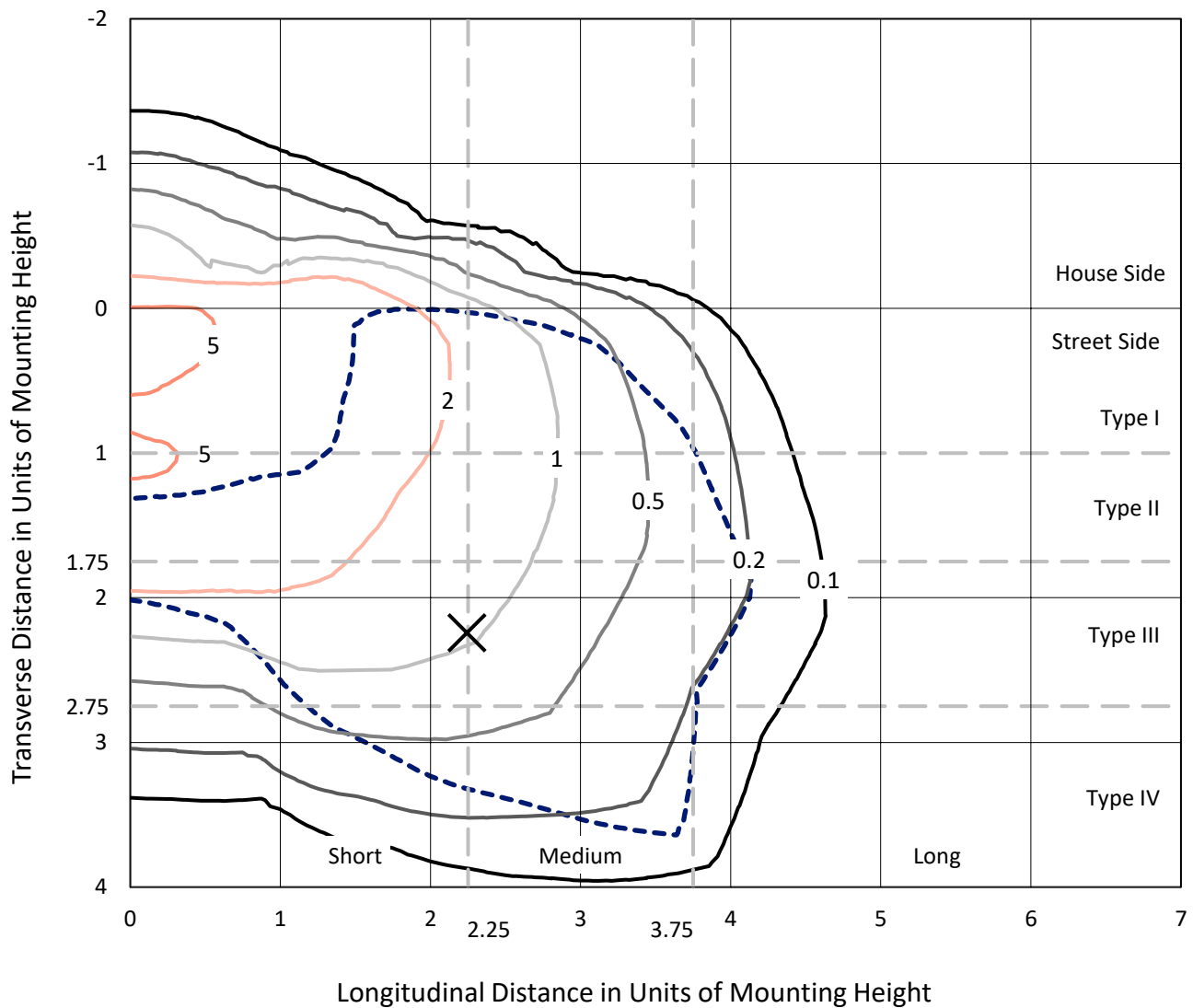


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Iso-Footcandle Lines of Horizontal Illumination

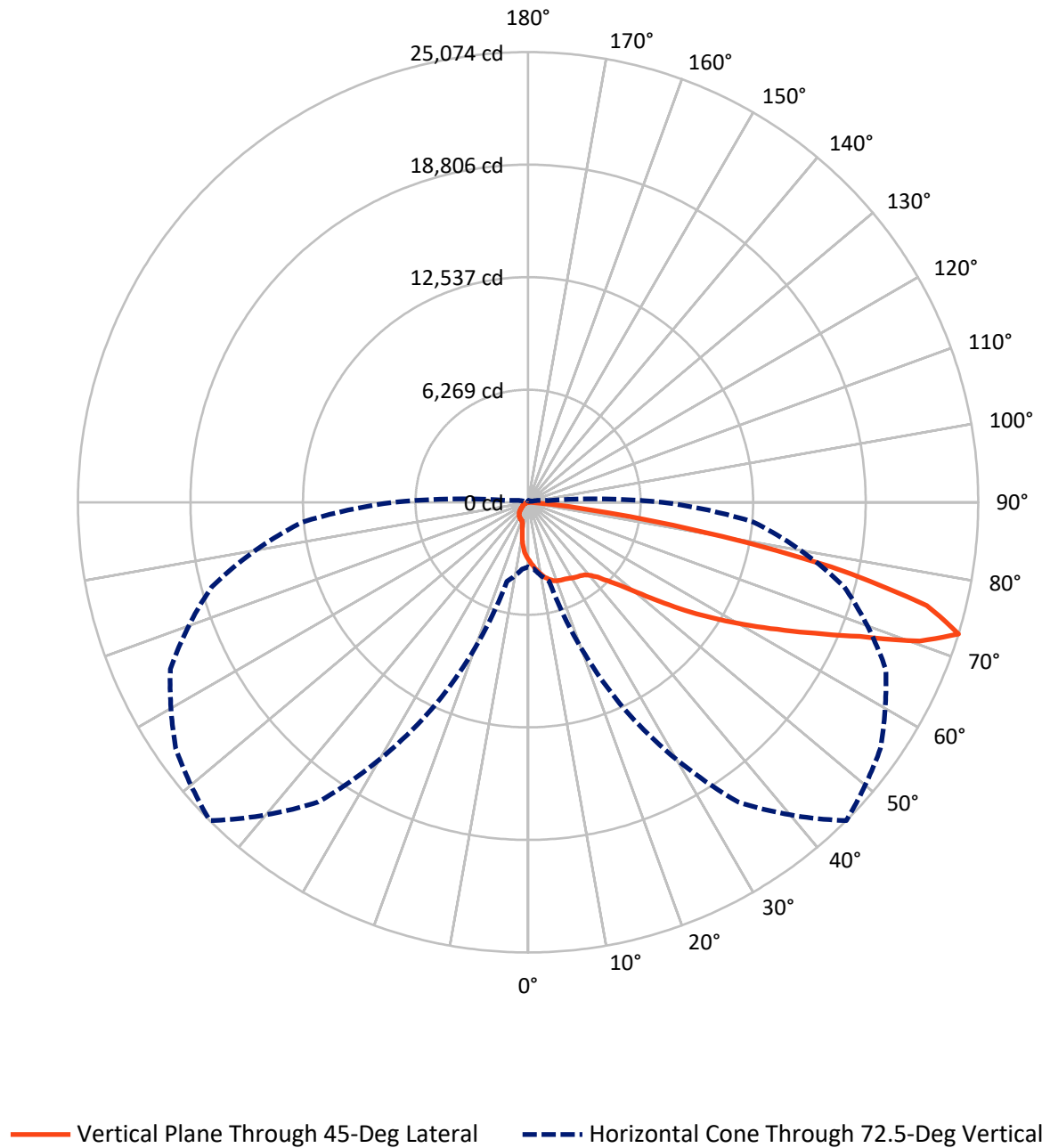
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3061.9	0.0	3061.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26079.1	0.0	26079.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	29141.0	0.0	29141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.0
10°-20°	879.1	3.0
20°-30°	1443.6	5.0
30°-40°	2047.4	7.0
40°-50°	3384.1	11.6
50°-60°	6079.2	20.9
60°-70°	8441.2	29.0
70°-80°	6123.0	21.0
80°-90°	442.7	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°	29141.0	100.0
0°-180°	29141.0	100.0

Coefficient of Utilization



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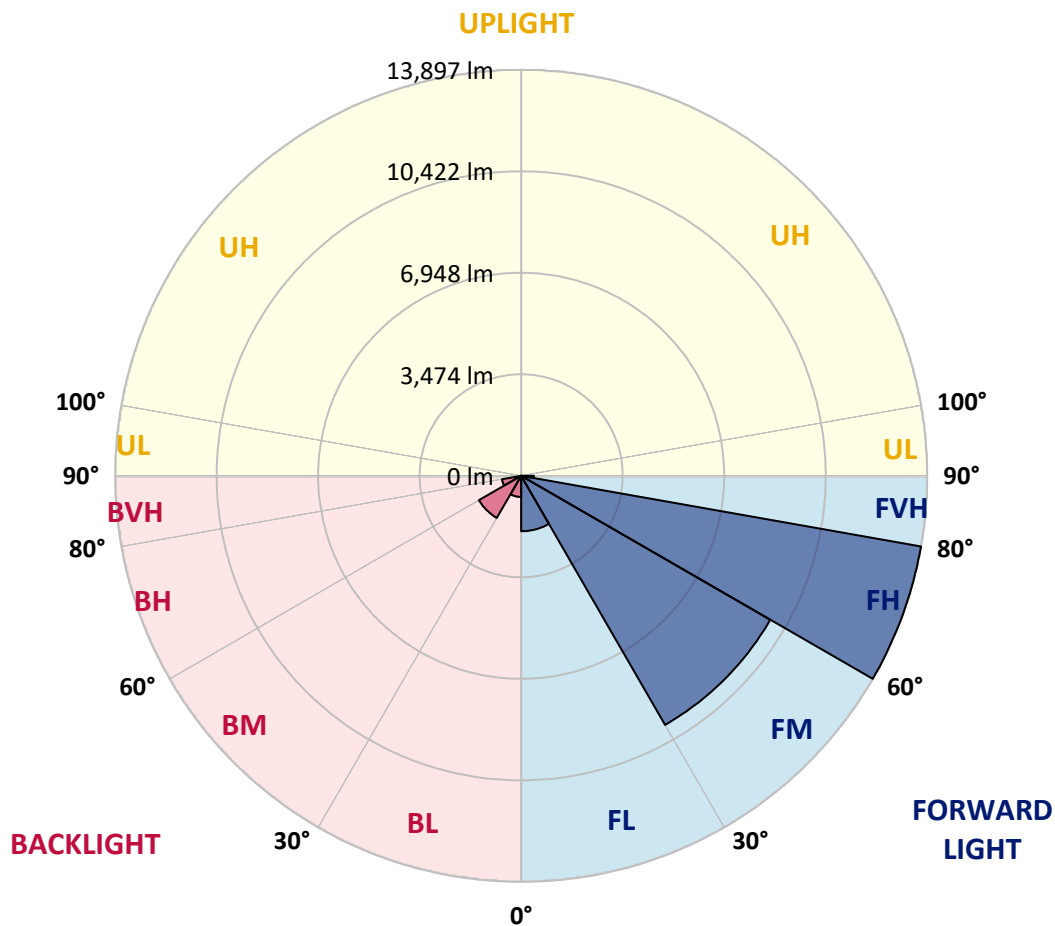
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1898.2	6.5			
FM	(30°-60°)	9845.4	33.8			
FH	(60°-80°)	13896.5	47.7			G5
FVH	(80°-90°)	438.9	1.5			G3/500
BL	(0°-30°)	725.2	2.5	B2/1000		
BM	(30°-60°)	1665.2	5.7	B2/2500		
BH	(60°-80°)	667.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5
2.5°	3486.8	3492.8	3488.8	3465.0	3425.2	3403.3	3391.4	3351.6	3325.7	3280.0	3232.2
5°	3807.1	3831.0	3817.0	3769.3	3693.7	3640.0	3624.1	3542.5	3468.9	3383.4	3284.0
7.5°	4147.2	4159.1	4133.3	4071.6	3970.2	3878.7	3864.8	3751.4	3634.0	3502.8	3367.5
10°	4441.6	4455.5	4415.7	4326.2	4210.9	4097.5	4077.6	3952.3	3813.0	3651.9	3478.9
12.5°	4688.2	4702.2	4650.4	4543.0	4415.7	4298.4	4278.5	4147.2	3994.1	3815.0	3600.2
15°	4875.2	4901.1	4831.5	4716.1	4578.8	4461.5	4451.5	4322.3	4173.1	3974.2	3745.4
17.5°	4984.6	5010.5	4944.8	4805.6	4688.2	4588.8	4576.9	4469.4	4330.2	4139.3	3886.6
20°	5002.5	5026.4	4956.8	4835.4	4738.0	4658.4	4652.4	4574.9	4473.4	4290.4	4039.8
22.5°	4948.8	4978.6	4915.0	4817.5	4749.9	4708.1	4700.2	4656.4	4598.7	4443.6	4183.0
25°	4893.1	4917.0	4869.2	4783.7	4747.9	4743.9	4749.9	4741.9	4730.0	4598.7	4350.1
27.5°	4889.1	4915.0	4861.3	4779.7	4759.8	4801.6	4807.6	4845.4	4855.3	4740.0	4511.2
30°	4923.0	4940.9	4889.1	4803.6	4793.7	4889.1	4891.1	4958.8	4974.7	4859.3	4670.3
32.5°	4996.5	5016.4	4964.7	4839.4	4825.5	4958.8	4964.7	5054.2	5080.1	4986.6	4837.4
35°	5169.6	5193.5	5133.8	4938.9	4889.1	5024.4	5042.3	5147.7	5199.4	5121.9	5010.5
37.5°	5601.2	5531.6	5450.1	5139.8	5034.3	5127.8	5157.7	5281.0	5372.5	5283.0	5217.3
40°	6673.3	6454.5	6199.9	5481.9	5288.9	5348.6	5372.5	5495.8	5621.1	5533.6	5501.8
42.5°	8282.5	8023.9	7614.2	6269.6	5672.8	5702.7	5720.6	5828.0	6005.0	5935.4	5943.3
45°	9716.6	9623.1	9205.4	7614.2	6390.9	6243.7	6265.6	6321.3	6581.8	6556.0	6607.7
47.5°	10818.6	10764.9	10442.6	9157.7	7604.2	6906.1	6967.7	6993.6	7369.5	7461.0	7600.2
50°	11665.9	11646.0	11357.6	10530.1	9189.5	7882.7	7904.6	7848.9	8411.8	8638.5	8903.1
52.5°	12465.5	12533.1	12320.3	11805.1	10882.2	9161.7	9157.7	8895.1	9654.9	9997.1	10448.6
55°	13187.5	13211.4	13233.3	13106.0	12584.9	10617.7	10579.9	10150.2	11097.0	11451.1	11940.4
57.5°	13865.8	13875.8	14070.7	14331.3	14357.1	12181.1	12111.5	11596.3	12672.4	12925.0	13225.3
60°	14321.3	14367.1	14778.8	15502.8	15819.1	13794.2	13756.4	13231.3	14275.6	14392.9	14337.2
62.5°	13664.9	13943.4	14981.7	16417.8	17199.5	15582.4	15564.5	15071.2	15962.3	15866.8	15389.4
65°	11061.2	11532.6	13358.6	17036.4	18554.1	17579.4	17605.3	17080.2	17694.8	17384.5	16244.7
67.5°	7737.5	8234.8	10394.9	17086.1	20067.7	19924.5	20073.7	19250.2	19534.7	18838.5	16447.6
70°	5350.6	5607.2	7013.5	16016.0	21247.3	23154.8	23150.8	21915.6	21364.6	19500.8	15413.3
72.5°	3598.2	3731.5	4555.0	12706.2	20380.0	25074.2	24958.9	23952.4	21981.2	18237.8	12592.8
75°	1517.7	1615.1	2108.4	7140.8	16123.4	22940.0	22627.7	21167.7	19530.7	14361.1	7856.8
77.5°	481.4	523.1	831.4	2556.0	8881.2	17243.3	16913.1	13219.4	13090.1	7204.4	2872.2
80°	228.7	266.5	467.4	1026.4	3494.8	9378.5	9332.7	5997.0	5631.1	1945.3	576.8
82.5°	99.5	117.4	258.6	549.0	1563.4	3345.6	3413.2	2040.8	1688.7	737.9	177.0
85°	31.8	41.8	119.3	252.6	660.4	831.4	821.5	485.3	680.3	401.8	61.7
87.5°	0.0	0.0	39.8	57.7	67.6	47.7	53.7	41.8	189.0	111.4	21.9
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°	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5	3192.5
2.5°	3208.4	3176.5	3120.9	3069.1	3023.4	2977.6	2949.8	2910.0	2906.0	2906.0	2916.0
5°	3230.3	3178.5	3079.1	2973.7	2852.3	2737.0	2621.6	2510.2	2474.4	2448.5	2460.5
7.5°	3293.9	3212.3	3055.2	2854.3	2623.6	2371.0	2193.9	2003.0	1929.4	1889.6	1895.6
10°	3385.4	3274.0	3035.3	2683.3	2309.3	1965.2	1712.6	1505.7	1426.2	1392.3	1392.3
12.5°	3486.8	3349.6	2999.5	2470.4	1965.2	1553.5	1306.8	1211.3	1199.4	1199.4	1199.4
15°	3608.2	3441.1	2937.9	2219.8	1605.2	1229.2	1141.7	1145.7	1157.6	1165.6	1165.6
17.5°	3733.5	3538.6	2840.4	1939.3	1286.9	1105.9	1107.9	1113.9	1123.8	1131.8	1131.8
20°	3868.7	3636.0	2711.1	1641.0	1103.9	1070.1	1076.1	1082.1	1090.0	1094.0	1096.0
22.5°	4013.9	3727.5	2557.9	1348.6	1042.3	1040.3	1042.3	1048.2	1058.2	1058.2	1062.2
25°	4169.1	3829.0	2382.9	1135.8	1010.4	1010.4	1014.4	1018.4	1026.4	1026.4	1028.3
27.5°	4328.2	3922.4	2197.9	1024.4	982.6	980.6	980.6	986.6	990.6	992.5	994.5
30°	4503.3	4031.8	2012.9	1000.5	960.7	950.8	944.8	948.8	952.8	954.8	958.7
32.5°	4682.3	4137.3	1847.8	1010.4	938.8	920.9	901.0	897.1	897.1	905.0	911.0
35°	4881.2	4252.6	1720.5	1044.3	926.9	877.2	845.4	827.5	829.4	841.4	847.3
37.5°	5119.9	4391.9	1627.1	1074.1	919.0	827.5	775.7	753.9	739.9	753.9	749.9
40°	5432.2	4596.7	1559.4	1098.0	909.0	769.8	700.2	664.3	638.5	646.4	642.5
42.5°	5891.6	4919.0	1533.6	1100.0	887.1	702.1	622.6	574.8	537.0	539.0	531.1
45°	6536.1	5428.2	1666.8	1074.1	839.4	628.5	541.0	477.4	453.5	447.5	439.6
47.5°	7419.2	6170.1	1975.1	1020.4	769.8	556.9	461.5	407.8	389.9	379.9	373.9
50°	8602.7	7122.9	2317.3	960.7	700.2	489.3	395.8	362.0	350.1	340.1	338.1
52.5°	9975.2	8089.6	2597.7	901.0	630.5	429.6	354.1	334.2	324.2	316.3	314.3
55°	11234.3	8755.9	2581.8	837.4	562.9	381.9	324.2	312.3	300.3	292.4	288.4
57.5°	12018.0	8849.4	2128.3	767.8	485.3	344.1	296.4	288.4	274.5	264.5	262.6
60°	12378.0	8316.3	1491.8	676.3	407.8	308.3	266.5	262.6	244.7	230.7	226.8
62.5°	12443.6	7325.7	994.5	562.9	340.1	274.5	236.7	230.7	206.9	183.0	171.1
65°	12177.1	5909.5	688.2	439.6	290.4	238.7	202.9	191.0	165.1	141.2	133.3
67.5°	11333.7	4149.2	479.4	316.3	246.6	189.0	161.1	157.1	137.2	117.4	111.4
70°	9788.2	2365.0	320.2	236.7	194.9	129.3	127.3	131.3	111.4	95.5	87.5
72.5°	7504.8	1082.1	198.9	173.0	133.3	87.5	101.4	103.4	85.5	71.6	63.7
75°	4417.7	463.5	125.3	111.4	67.6	57.7	73.6	75.6	57.7	45.7	39.8
77.5°	1503.7	175.0	79.6	65.6	33.8	31.8	47.7	47.7	31.8	17.9	13.9
80°	342.1	65.6	39.8	25.9	15.9	13.9	15.9	13.9	8.0	2.0	0.0
82.5°	97.5	25.9	15.9	9.9	6.0	6.0	2.0	0.0	0.0	0.0	0.0
85°	27.8	11.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	2.0	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)