

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: P458926

Luminaire Tested: **GALN-SA4C-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25861 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

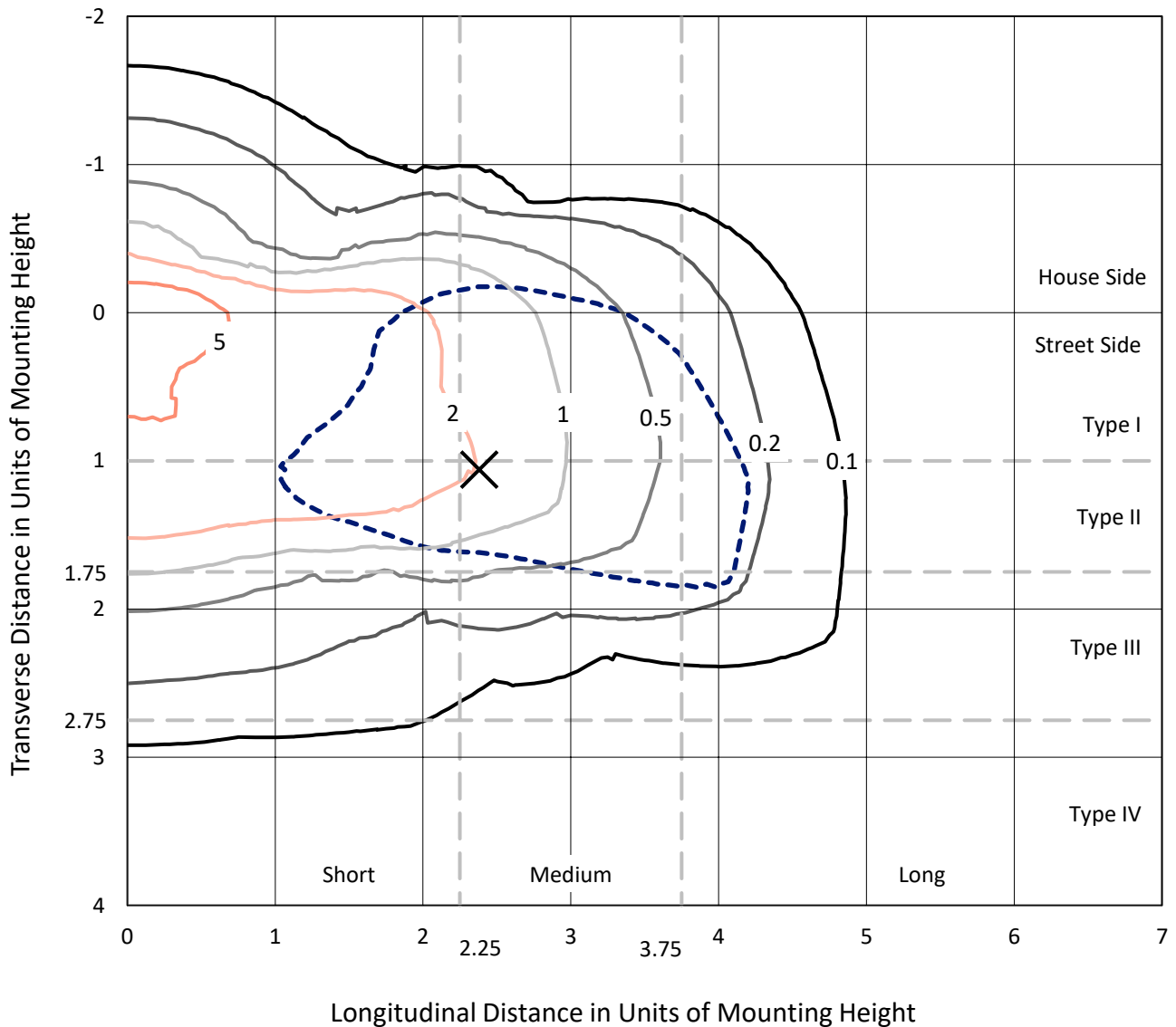
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

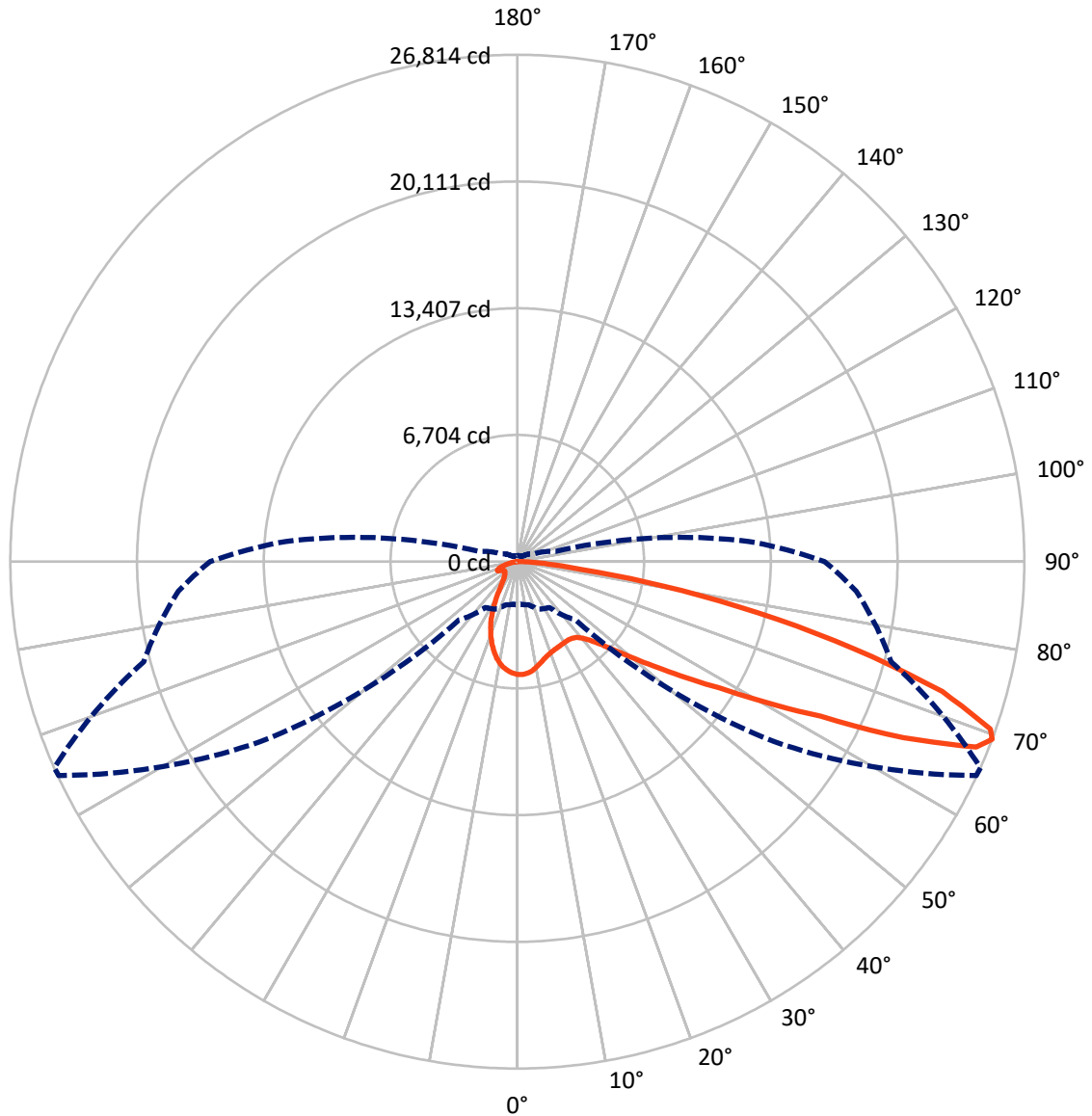
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4863.5	0.0	4863.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20997.5	0.0	20997.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	25861.0	0.0	25861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.6	2.0
10°-20°	1230.1	4.8
20°-30°	1674.6	6.5
30°-40°	2250.3	8.7
40°-50°	3360.1	13.0
50°-60°	5344.8	20.7
60°-70°	6573.8	25.4
70°-80°	4277.2	16.5
80°-90°	631.6	2.4
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°	25861.0	100.0
0°-180°	25861.0	100.0

Coefficient of Utilization



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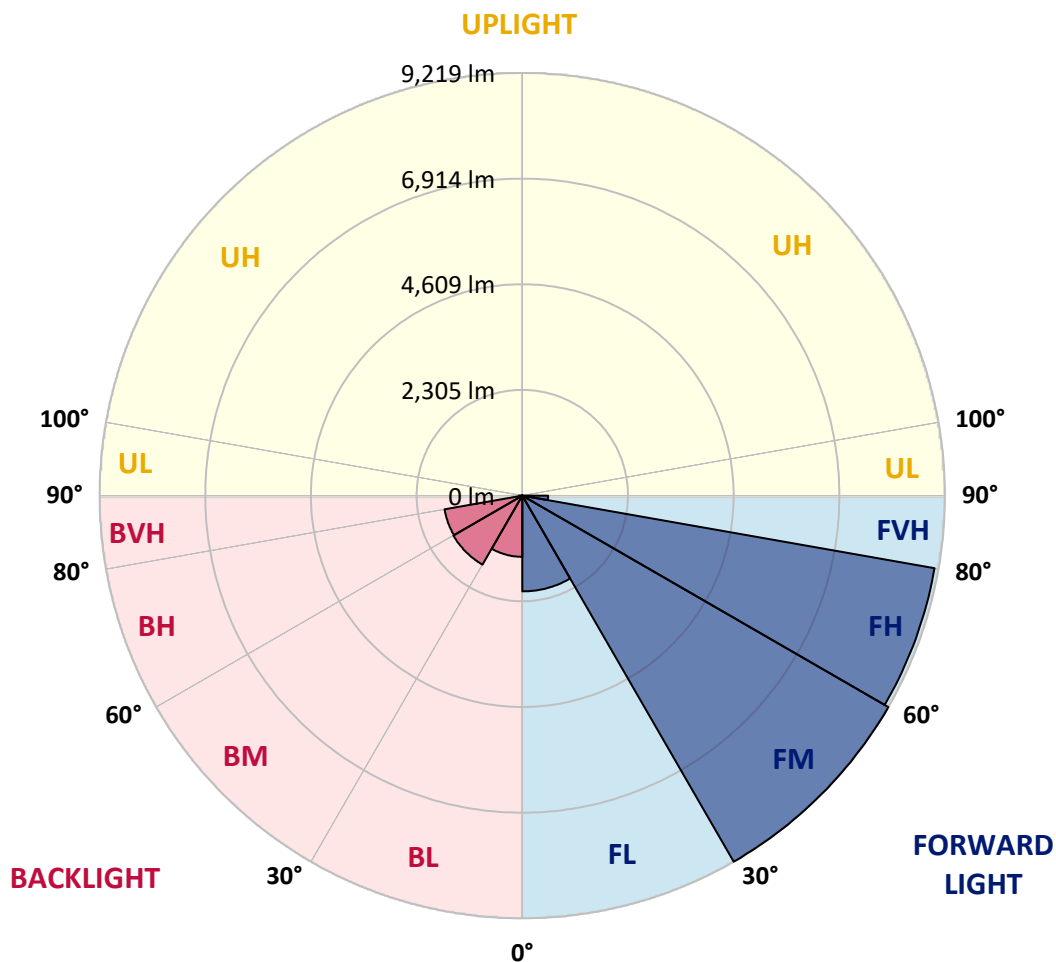
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2088.2	8.1			
FM	(30°-60°)	9218.7	35.6			
FH	(60°-80°)	9129.1	35.3			G4/12000
FVH	(80°-90°)	561.5	2.2			G4/750
BL	(0°-30°)	1335.0	5.2	B3/2500		
BM	(30°-60°)	1736.5	6.7	B2/2500		
BH	(60°-80°)	1721.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	70.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0
2.5°	5762.9	5785.8	5811.6	5840.3	5894.7	5924.8	5946.2	5970.6	5973.5	5986.3	5976.3
5°	5337.6	5364.8	5403.5	5457.9	5539.5	5667.0	5798.7	5906.1	5919.0	5979.2	5996.4
7.5°	4982.4	4998.2	5029.7	5117.0	5233.0	5374.8	5566.7	5784.4	5815.9	5959.1	6009.3
10°	4693.1	4708.9	4746.1	4836.3	4950.9	5128.5	5339.0	5625.4	5651.2	5897.6	6012.1
12.5°	4476.9	4491.2	4531.3	4620.1	4751.8	4918.0	5150.0	5453.6	5490.8	5815.9	5984.9
15°	4312.2	4339.4	4372.3	4445.4	4584.3	4744.7	4969.5	5296.1	5326.1	5730.0	5966.3
17.5°	4242.0	4254.9	4277.8	4345.1	4446.8	4604.3	4830.6	5172.9	5208.7	5669.8	5962.0
20°	4244.9	4257.8	4262.0	4299.3	4372.3	4508.4	4731.8	5075.5	5118.5	5616.9	5969.2
22.5°	4342.2	4343.7	4327.9	4315.0	4343.7	4456.8	4661.6	5002.5	5052.6	5593.9	5974.9
25°	4492.6	4518.4	4495.5	4435.3	4382.3	4436.8	4634.4	4962.4	5009.6	5561.0	5967.7
27.5°	4736.1	4740.4	4721.8	4640.1	4502.6	4462.5	4622.9	4932.3	4972.4	5536.7	5931.9
30°	5062.6	5049.7	5032.5	4942.3	4726.1	4561.4	4647.3	4905.1	4946.6	5500.8	5889.0
32.5°	5393.4	5433.5	5417.8	5311.8	5031.1	4753.3	4726.1	4902.2	4936.6	5473.6	5841.7
35°	5744.3	5762.9	5837.4	5783.0	5495.1	5064.0	4873.6	4946.6	4973.8	5475.1	5808.8
37.5°	6019.3	6069.4	6244.1	6291.4	6020.7	5475.1	5112.7	5072.6	5084.1	5545.2	5821.6
40°	6351.5	6437.5	6662.3	6855.7	6678.1	6009.3	5519.5	5306.1	5320.4	5714.2	5906.1
42.5°	6772.6	6832.7	7134.9	7397.0	7368.4	6715.3	6012.1	5688.5	5695.6	6050.8	6142.4
45°	7265.2	7351.2	7690.6	8084.4	8151.7	7514.4	6723.9	6267.0	6262.7	6573.5	6583.5
47.5°	7895.4	7948.4	8284.9	8714.6	8986.7	8518.4	7587.5	7097.7	7051.9	7335.4	7253.8
50°	8475.4	8558.5	8813.4	9283.1	9960.5	9694.2	8723.2	8174.7	8067.2	8332.2	8194.7
52.5°	8718.9	8806.2	9021.0	9603.9	10795.5	11215.1	10165.3	9459.3	9280.3	9483.6	9433.5
55°	8296.4	8409.5	8610.0	9318.9	11162.1	12969.5	12110.2	10944.4	10814.1	10726.7	10741.0
57.5°	7160.7	7268.1	7538.8	8320.7	10723.9	14242.6	14887.1	12853.5	12574.2	12171.8	12240.5
60°	5450.7	5518.0	5658.4	6524.8	9424.9	14573.5	18040.7	15266.6	15089.0	13611.1	13659.8
62.5°	3871.1	3947.0	4044.4	4476.9	6900.1	13641.1	20509.7	18636.4	18002.0	15101.9	15054.7
65°	3143.5	3092.0	3209.4	3411.4	4048.7	10572.1	21065.3	23313.8	22440.2	17065.4	16409.5
67.5°	2585.0	2530.6	2646.6	3006.1	3079.1	6136.7	19063.2	26349.9	26175.2	19200.7	17785.7
69°	2288.6	2259.9	2361.6	2771.2	2955.9	4358.0	16607.1	26772.4	26814.0	20459.6	17997.7
70°	2062.3	2073.7	2172.6	2652.3	2900.1	3593.2	14193.9	26189.5	26541.8	21088.3	17768.6
72.5°	1518.1	1542.4	1679.9	2196.9	2847.1	3049.0	8446.8	22875.6	23498.6	21125.5	16254.8
75°	1061.2	1049.8	1171.5	1654.1	2689.6	3021.8	4960.9	17691.2	18397.3	18259.8	13658.3
77.5°	694.6	713.2	810.6	1168.6	2262.8	2998.9	3233.8	12551.3	13009.6	12211.9	8078.7
80°	489.8	488.4	542.8	797.7	1678.5	2881.5	2648.0	7911.1	7795.1	4799.1	2396.0
82.5°	280.7	300.7	363.8	561.4	1122.8	2536.3	2436.1	3783.7	3454.3	1367.7	809.2
85°	156.1	163.3	216.3	339.4	655.9	1910.5	2126.7	1721.4	1624.0	571.4	348.0
87.5°	50.1	54.4	90.2	171.9	297.9	902.2	1204.4	794.8	733.3	206.2	140.3
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°	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0	5972.0
2.5°	5980.6	5997.8	5952.0	5907.6	5867.5	5811.6	5761.5	5720.0	5691.3	5687.0	5672.7
5°	6000.7	6002.1	5914.7	5797.3	5682.7	5556.7	5426.4	5333.3	5245.9	5197.2	5172.9
7.5°	6015.0	6002.1	5844.6	5654.1	5433.5	5204.4	4975.3	4791.9	4650.2	4594.3	4615.8
10°	6009.3	5969.2	5738.6	5433.5	5112.7	4770.5	4441.1	4183.3	3947.0	3825.2	3828.1
12.5°	5977.8	5911.9	5581.0	5185.8	4714.6	4256.3	3752.2	3404.2	3130.7	2968.8	2918.7
15°	5950.5	5836.0	5396.3	4849.2	4263.5	3609.0	2994.6	2565.0	2335.8	2208.4	2206.9
17.5°	5921.9	5762.9	5194.4	4492.6	3745.0	2902.9	2258.5	1930.5	1823.1	1836.0	1814.5
20°	5891.8	5677.0	4983.8	4095.9	3113.5	2165.4	1691.4	1558.2	1588.2	1647.0	1655.6
22.5°	5857.5	5585.3	4757.6	3659.1	2449.0	1629.8	1372.0	1351.9	1429.3	1520.9	1533.8
25°	5804.5	5470.8	4472.6	3202.3	1889.0	1313.3	1201.6	1215.9	1291.8	1369.1	1377.7
27.5°	5730.0	5329.0	4184.7	2632.3	1419.3	1127.1	1098.5	1117.1	1154.3	1201.6	1213.0
30°	5629.7	5168.6	3853.9	2139.6	1137.1	1034.0	1022.5	1032.6	1054.1	1074.1	1079.8
32.5°	5529.5	5013.9	3520.2	1638.4	1014.0	972.4	961.0	961.0	961.0	963.8	965.3
35°	5436.4	4867.8	3162.2	1276.0	949.5	923.7	908.0	890.8	887.9	877.9	877.9
37.5°	5384.8	4734.7	2781.2	1068.4	902.2	883.6	862.1	833.5	817.8	819.2	816.3
40°	5394.9	4647.3	2434.6	950.9	863.6	843.5	810.6	777.7	767.6	767.6	764.8
42.5°	5508.0	4618.7	2102.4	889.4	826.3	803.4	761.9	731.8	726.1	724.7	727.5
45°	5768.7	4688.8	1804.5	849.3	794.8	760.5	718.9	691.7	686.0	686.0	684.6
47.5°	6277.1	4916.5	1591.1	823.5	771.9	727.5	684.6	657.4	647.3	644.5	644.5
50°	7067.6	5410.6	1432.1	800.6	743.3	697.5	653.1	621.5	605.8	604.4	602.9
52.5°	8166.1	6181.1	1370.6	783.4	711.8	665.9	617.3	587.2	567.1	562.8	560.0
55°	9450.7	7256.7	1455.1	770.5	678.8	630.1	580.0	548.5	529.9	521.3	519.9
57.5°	10938.7	8548.4	1775.9	753.3	648.8	591.5	542.8	511.3	491.2	481.2	478.3
60°	12274.9	9876.0	2335.8	743.3	623.0	549.9	499.8	471.2	452.6	442.5	441.1
62.5°	13742.8	11142.0	3004.6	770.5	611.5	509.8	459.7	433.9	418.2	408.2	408.2
65°	15311.0	12409.5	3447.2	862.1	628.7	478.3	416.8	395.3	380.9	373.8	372.4
67.5°	16367.9	12847.7	2839.9	956.7	671.7	444.0	375.2	358.0	349.4	342.3	342.3
69°	16253.4	12293.5	2095.2	981.0	684.6	426.8	352.3	339.4	328.0	325.1	322.2
70°	15891.0	11661.9	1755.8	965.3	674.5	411.0	338.0	322.2	312.2	309.3	307.9
72.5°	14153.8	10113.8	1307.5	839.2	574.3	356.6	299.3	285.0	276.4	272.1	272.1
75°	11759.3	8266.3	1021.1	667.4	449.7	300.7	256.4	244.9	237.7	234.9	233.4
77.5°	6590.7	4615.8	733.3	522.7	340.8	243.5	214.8	204.8	197.6	194.8	194.8
80°	1836.0	1319.0	431.1	345.1	232.0	184.7	170.4	163.3	153.2	146.1	150.4
82.5°	691.7	571.4	246.3	207.7	147.5	123.2	118.9	113.1	108.8	98.8	98.8
85°	336.6	277.8	157.5	110.3	81.6	64.4	61.6	58.7	55.9	48.7	50.1
87.5°	116.0	123.2	68.7	40.1	24.3	15.8	12.9	7.2	7.2	7.2	7.2
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)