

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: P454170

Luminaire Tested: **GALN-SA5B-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454170
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-SA5B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 25904 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

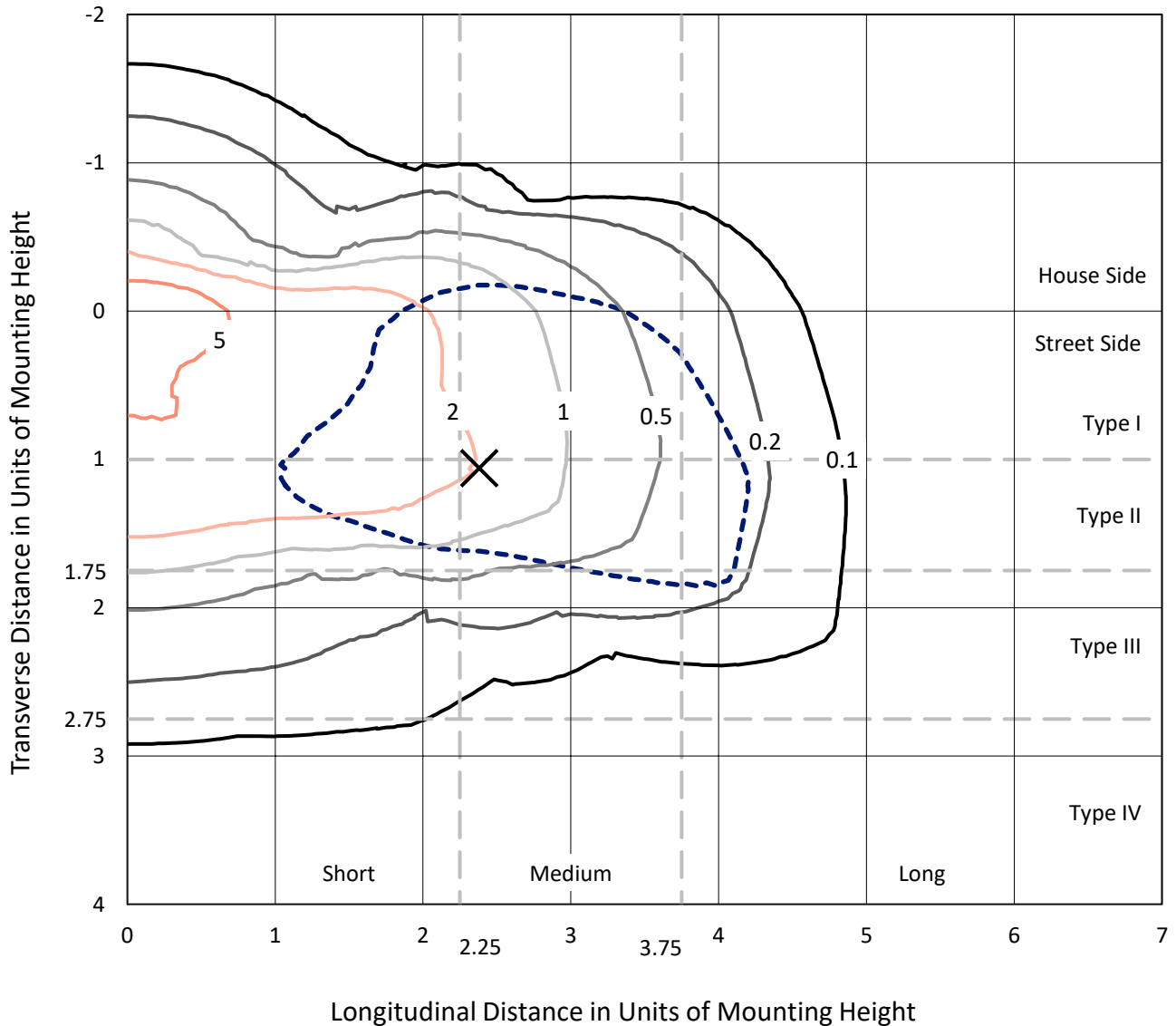
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

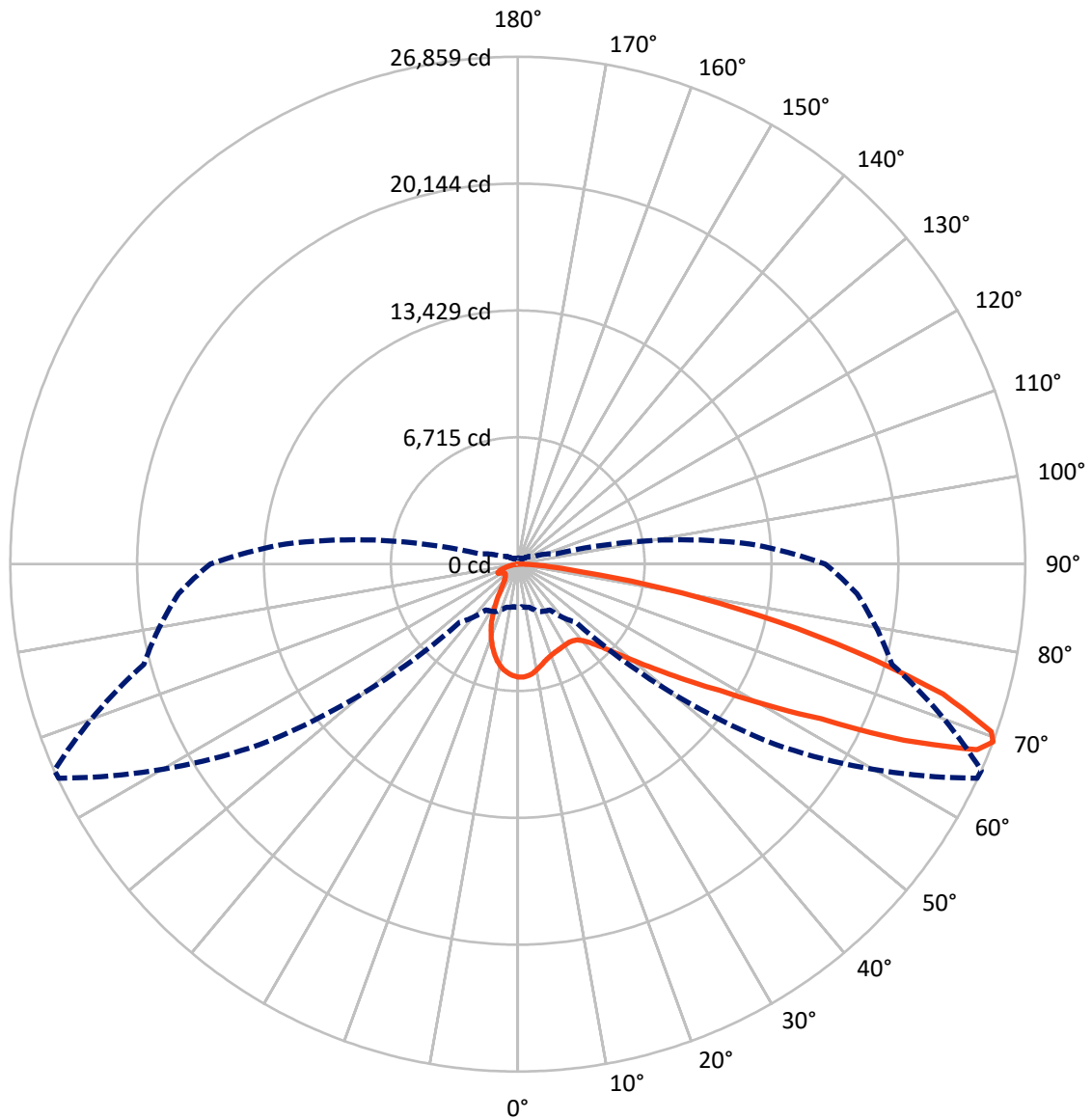
✕ Max cd
 - - - 1/2 Max cd



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	4871.6	0.0	4871.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21032.4	0.0	21032.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	25904.0	0.0	25904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.5	2.0
10°-20°	1232.1	4.8
20°-30°	1677.4	6.5
30°-40°	2254.0	8.7
40°-50°	3365.7	13.0
50°-60°	5353.6	20.7
60°-70°	6584.7	25.4
70°-80°	4284.3	16.5
80°-90°	632.7	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°	25904.0	100.0
0°-180°	25904.0	100.0

Coefficient of Utilization



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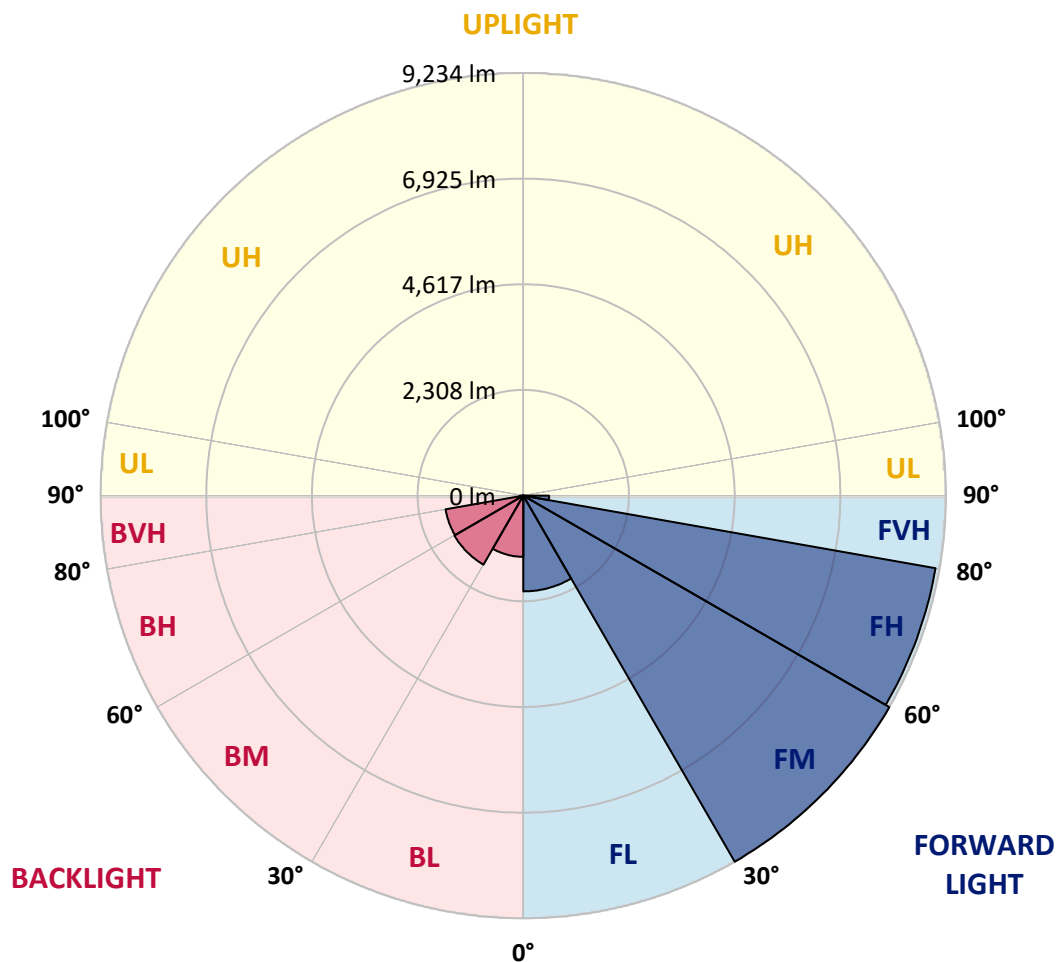
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2091.7	8.1			
FM	(30°-60°)	9234.0	35.6			
FH	(60°-80°)	9144.2	35.3			G4/12000
FVH	(80°-90°)	562.5	2.2			G4/750
BL	(0°-30°)	1337.3	5.2	B3/2500		
BM	(30°-60°)	1739.4	6.7	B2/2500		
BH	(60°-80°)	1724.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	70.2	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°	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0
2.5°	5772.5	5795.5	5821.3	5850.0	5904.5	5934.6	5956.1	5980.5	5983.4	5996.3	5986.3
5°	5346.5	5373.7	5412.4	5467.0	5548.7	5676.4	5808.4	5916.0	5928.9	5989.1	6006.3
7.5°	4990.7	5006.5	5038.0	5125.5	5241.7	5383.8	5576.0	5794.0	5825.6	5969.0	6019.3
10°	4700.9	4716.7	4754.0	4844.4	4959.1	5137.0	5347.9	5634.8	5660.6	5907.4	6022.1
12.5°	4484.3	4498.7	4538.8	4627.8	4759.7	4926.1	5158.5	5462.7	5500.0	5825.6	5994.9
15°	4319.3	4346.6	4379.6	4452.8	4591.9	4752.6	4977.8	5304.9	5335.0	5739.5	5976.2
17.5°	4249.1	4262.0	4284.9	4352.3	4454.2	4612.0	4838.6	5181.5	5217.4	5679.3	5971.9
20°	4251.9	4264.8	4269.1	4306.4	4379.6	4515.9	4739.7	5083.9	5127.0	5626.2	5979.1
22.5°	4349.5	4350.9	4335.1	4322.2	4350.9	4464.2	4669.4	5010.8	5061.0	5603.2	5984.8
25°	4500.1	4525.9	4503.0	4442.7	4389.6	4444.1	4642.1	4970.6	5018.0	5570.2	5977.6
27.5°	4744.0	4748.3	4729.6	4647.8	4510.1	4470.0	4630.6	4940.5	4980.7	5545.9	5941.8
30°	5071.0	5058.1	5040.9	4950.5	4733.9	4568.9	4655.0	4913.2	4954.8	5510.0	5898.8
32.5°	5402.4	5442.6	5426.8	5320.6	5039.5	4761.2	4733.9	4910.4	4944.8	5482.7	5851.4
35°	5753.9	5772.5	5847.1	5792.6	5504.3	5072.5	4881.7	4954.8	4982.1	5484.2	5818.4
37.5°	6029.3	6079.5	6254.5	6301.9	6030.7	5484.2	5121.2	5081.1	5092.6	5554.5	5831.3
40°	6362.1	6448.2	6673.4	6867.1	6689.2	6019.3	5528.6	5314.9	5329.2	5723.7	5916.0
42.5°	6783.9	6844.1	7146.8	7409.3	7380.6	6726.5	6022.1	5697.9	5705.1	6060.9	6152.7
45°	7277.3	7363.4	7703.4	8097.9	8165.3	7526.9	6735.1	6277.5	6273.2	6584.5	6594.5
47.5°	7908.5	7961.6	8298.7	8729.1	9001.6	8532.5	7600.1	7109.5	7063.6	7347.6	7265.8
50°	8489.5	8572.7	8828.0	9298.6	9977.1	9710.3	8737.7	8188.2	8080.7	8346.0	8208.3
52.5°	8733.4	8820.9	9036.0	9619.9	10813.4	11233.7	10182.2	9475.0	9295.7	9499.4	9449.2
55°	8310.2	8423.5	8624.3	9334.4	11180.7	12991.0	12130.3	10962.6	10832.1	10744.6	10758.9
57.5°	7172.6	7280.2	7551.3	8334.6	10741.7	14266.3	14911.8	12874.8	12595.1	12192.0	12260.9
60°	5459.8	5527.2	5667.8	6535.7	9440.6	14597.7	18070.7	15292.0	15114.1	13633.7	13682.5
62.5°	3877.5	3953.5	4051.1	4484.3	6911.5	13663.8	20543.8	18667.4	18031.9	15127.0	15079.7
65°	3148.8	3097.1	3214.8	3417.0	4055.4	10589.6	21100.4	23352.6	22477.5	17093.8	16436.7
67.5°	2589.3	2534.8	2651.0	3011.1	3084.2	6146.9	19094.9	26393.8	26218.7	19232.6	17815.3
69°	2292.4	2263.7	2365.5	2775.8	2960.9	4365.2	16634.7	26816.9	26858.5	20493.6	18027.6
70°	2065.7	2077.2	2176.2	2656.7	2904.9	3599.2	14217.5	26233.1	26586.0	21123.3	17798.1
72.5°	1520.6	1545.0	1682.7	2200.6	2851.8	3054.1	8460.8	22913.6	23537.6	21160.6	16281.8
75°	1063.0	1051.5	1173.4	1656.9	2694.0	3026.8	4969.2	17720.6	18427.9	18290.1	13681.0
77.5°	695.7	714.4	811.9	1170.6	2266.5	3003.9	3239.1	12572.1	13031.2	12232.2	8092.1
80°	490.6	489.2	543.7	799.0	1681.3	2886.3	2652.4	7924.3	7808.1	4807.1	2400.0
82.5°	281.2	301.2	364.4	562.3	1124.7	2540.5	2440.1	3790.0	3460.1	1370.0	810.5
85°	156.4	163.5	216.6	340.0	657.0	1913.7	2130.3	1724.3	1626.7	572.4	348.6
87.5°	50.2	54.5	90.4	172.1	298.4	903.7	1206.4	796.2	734.5	206.6	140.6
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°	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0	5982.0
2.5°	5990.6	6007.8	5961.9	5917.4	5877.2	5821.3	5771.1	5729.5	5700.8	5696.5	5682.1
5°	6010.6	6012.1	5924.6	5806.9	5692.2	5565.9	5435.4	5342.2	5254.7	5205.9	5181.5
7.5°	6025.0	6012.1	5854.3	5663.5	5442.6	5213.0	4983.5	4799.9	4657.9	4601.9	4623.5
10°	6019.3	5979.1	5748.1	5442.6	5121.2	4778.4	4448.5	4190.2	3953.5	3831.6	3834.5
12.5°	5987.7	5921.7	5590.3	5194.4	4722.4	4263.4	3758.4	3409.9	3135.9	2973.8	2923.6
15°	5960.4	5845.7	5405.3	4857.3	4270.6	3615.0	2999.6	2569.2	2339.7	2212.0	2210.6
17.5°	5931.7	5772.5	5203.0	4500.1	3751.3	2907.8	2262.2	1933.7	1826.1	1839.1	1817.5
20°	5901.6	5686.4	4992.1	4102.7	3118.6	2169.0	1694.2	1560.8	1590.9	1649.7	1658.3
22.5°	5867.2	5594.6	4765.5	3665.2	2453.0	1632.5	1374.3	1354.2	1431.7	1523.5	1536.4
25°	5814.1	5479.9	4480.0	3207.6	1892.1	1315.5	1203.6	1217.9	1293.9	1371.4	1380.0
27.5°	5739.5	5337.9	4191.7	2636.6	1421.6	1129.0	1100.3	1118.9	1156.2	1203.6	1215.0
30°	5639.1	5177.2	3860.3	2143.2	1139.0	1035.7	1024.2	1034.3	1055.8	1075.9	1081.6
32.5°	5538.7	5022.3	3526.1	1641.1	1015.6	974.0	962.6	962.6	962.6	965.4	966.9
35°	5445.4	4875.9	3167.4	1278.2	951.1	925.3	909.5	892.3	889.4	879.4	879.4
37.5°	5393.8	4742.5	2785.8	1070.2	903.7	885.1	863.6	834.9	819.1	820.5	817.7
40°	5403.8	4655.0	2438.7	952.5	865.0	844.9	811.9	778.9	768.9	768.9	766.0
42.5°	5517.2	4626.3	2105.9	890.8	827.7	804.8	763.2	733.0	727.3	725.9	728.7
45°	5778.3	4696.6	1807.5	850.7	796.2	761.7	720.1	692.9	687.1	687.1	685.7
47.5°	6287.5	4924.7	1593.8	824.8	773.2	728.7	685.7	658.4	648.4	645.5	645.5
50°	7079.4	5419.6	1434.5	801.9	744.5	698.6	654.1	622.6	606.8	605.4	603.9
52.5°	8179.6	6191.4	1372.8	784.7	713.0	667.1	618.3	588.2	568.1	563.8	560.9
55°	9466.4	7268.7	1457.5	771.8	680.0	631.2	581.0	549.4	530.8	522.2	520.7
57.5°	10956.9	8562.7	1778.8	754.6	649.8	592.5	543.7	512.1	492.0	482.0	479.1
60°	12295.3	9892.5	2339.7	744.5	624.0	550.9	500.6	472.0	453.3	443.3	441.8
62.5°	13765.7	11160.6	3009.6	771.8	612.5	510.7	460.5	434.7	418.9	408.8	408.8
65°	15336.5	12430.1	3452.9	863.6	629.8	479.1	417.4	395.9	381.6	374.4	373.0
67.5°	16395.1	12869.1	2844.7	958.3	672.8	444.7	375.8	358.6	350.0	342.9	342.9
69°	16280.4	12313.9	2098.7	982.6	685.7	427.5	352.9	340.0	328.5	325.6	322.8
70°	15917.4	11681.3	1758.7	966.9	675.7	411.7	338.5	322.8	312.7	309.9	308.4
72.5°	14177.4	10130.6	1309.7	840.6	575.2	357.2	299.8	285.5	276.9	272.6	272.6
75°	11778.9	8280.1	1022.8	668.5	450.4	301.2	256.8	245.3	238.1	235.3	233.8
77.5°	6601.7	4623.5	734.5	523.6	341.4	243.9	215.2	205.1	198.0	195.1	195.1
80°	1839.1	1321.2	431.8	345.7	232.4	185.1	170.7	163.5	153.5	146.3	150.6
82.5°	692.9	572.4	246.7	208.0	147.8	123.4	119.1	113.3	109.0	99.0	99.0
85°	337.1	278.3	157.8	110.5	81.8	64.6	61.7	58.8	55.9	48.8	50.2
87.5°	116.2	123.4	68.9	40.2	24.4	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)