

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: P529970

Luminaire Tested: **GALN-SA5A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16422 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 154
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

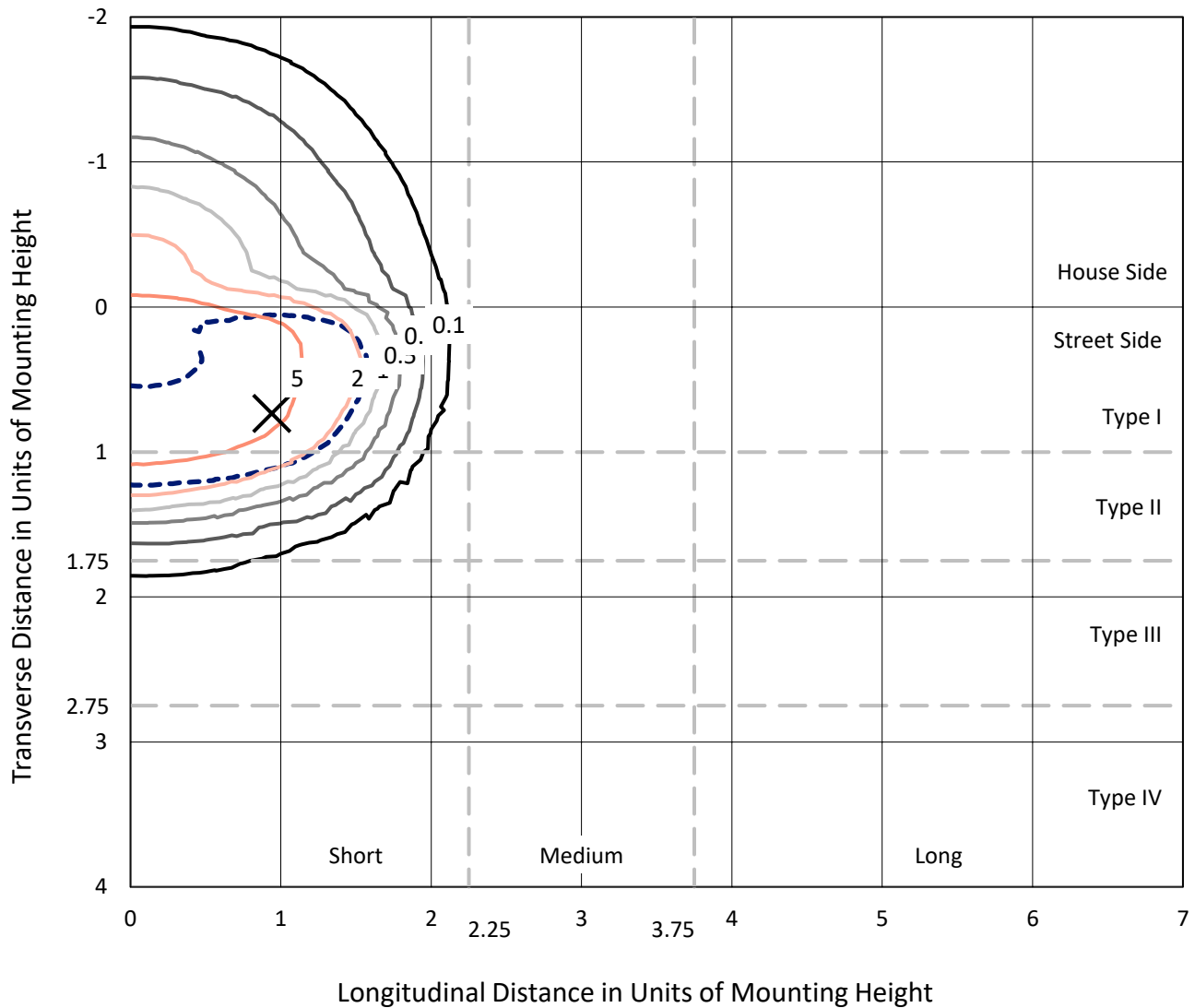


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Iso-Footcandle Lines of Horizontal Illumination

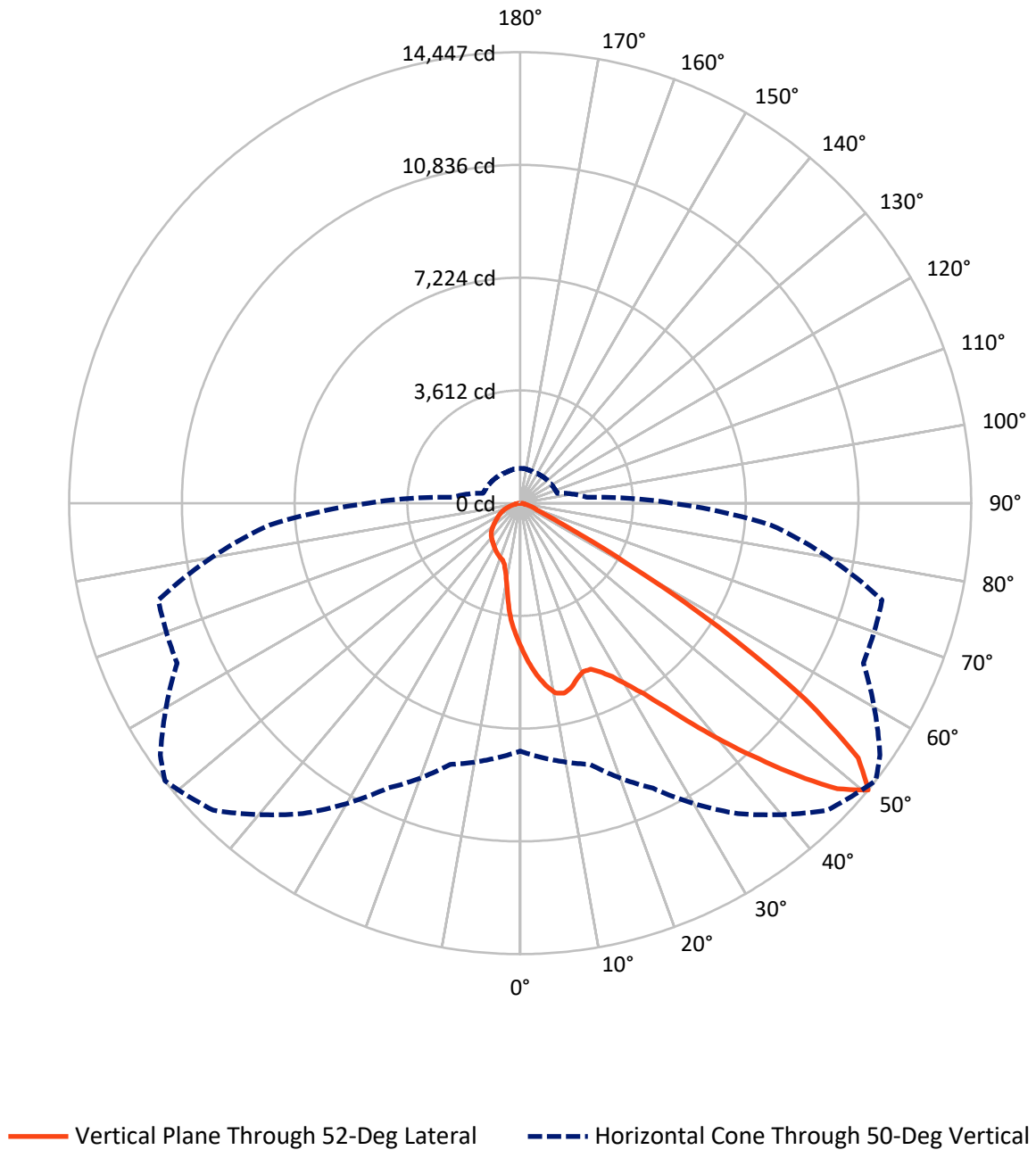
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3087.0	0.0	3087.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13335.1	0.0	13335.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	16422.0	0.0	16422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	2.6
10°-20°	1143.6	7.0
20°-30°	1926.3	11.7
30°-40°	3232.5	19.7
40°-50°	4944.9	30.1
50°-60°	3605.2	22.0
60°-70°	802.3	4.9
70°-80°	289.4	1.8
80°-90°	51.2	0.3
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°	16422.0	100.0
0°-180°	16422.0	100.0

Coefficient of Utilization



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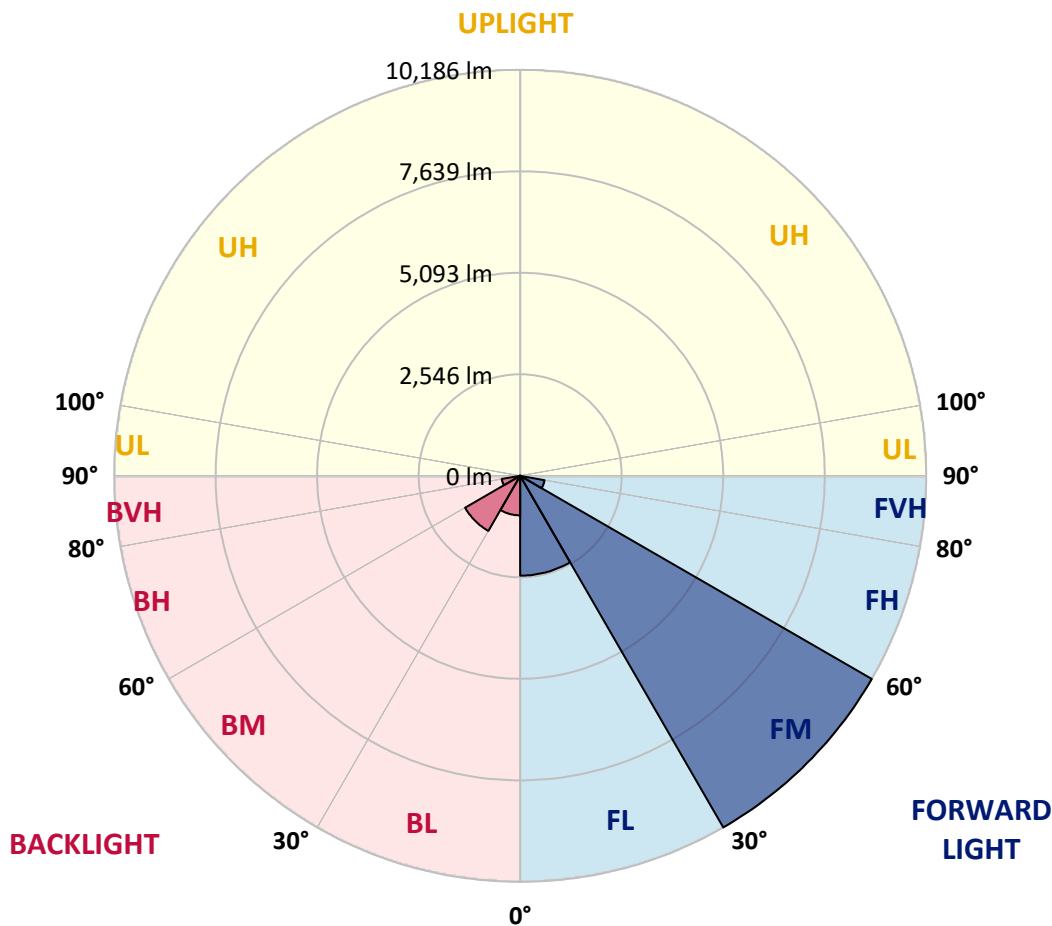
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2504.9	15.3			
FM	(30°-60°)	10185.8	62.0			
FH	(60°-80°)	621.4	3.8			G0/660
FVH	(80°-90°)	23.0	0.1			G1/100
BL	(0°-30°)	991.6	6.0	B2/1000		
BM	(30°-60°)	1596.8	9.7	B2/2500		
BH	(60°-80°)	470.3	2.9	B1/500		G1/500
BVH	(80°-90°)	28.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1
2.5°	5450.4	5345.5	5357.4	5282.2	5201.0	5177.3	5094.2	5015.0	4955.6	4829.0	4712.2
5°	5957.1	5925.4	5877.9	5818.5	5757.2	5606.8	5521.7	5422.7	5205.0	5009.1	4815.1
7.5°	6030.3	6024.3	6050.1	6050.1	6071.8	6014.5	5893.7	5824.5	5592.9	5274.3	4914.1
10°	5515.7	5533.5	5658.2	5820.5	6046.1	6202.5	6182.7	6164.9	5911.5	5476.1	5030.8
12.5°	5106.1	5066.5	5139.7	5278.2	5616.7	5994.7	6250.0	6251.9	6186.6	5798.7	5115.9
15°	4874.5	4902.2	4922.0	4987.3	5242.6	5680.0	6129.2	6261.8	6548.8	6026.3	5250.5
17.5°	5022.9	4929.9	4926.0	4941.8	5072.4	5400.9	5905.6	6133.2	6746.7	6319.2	5416.8
20°	5216.9	5214.9	5159.5	5139.7	5137.7	5430.6	5759.1	6067.9	6851.6	6699.2	5585.0
22.5°	5557.3	5557.3	5466.2	5422.7	5329.7	5569.2	5778.9	5988.7	7025.8	6960.5	5666.1
25°	6127.3	6034.2	5877.9	5771.0	5717.6	5802.7	5988.7	6176.7	7178.2	7237.5	5834.4
27.5°	6653.7	6507.2	6430.1	6246.0	6174.8	6125.3	6295.5	6485.5	7356.3	7669.0	5925.4
30°	7251.4	7225.7	7087.1	6849.6	6673.5	6582.5	6738.8	6926.8	7682.8	8110.3	6135.2
32.5°	8320.1	8086.6	7898.5	7607.6	7320.7	7126.7	7281.1	7405.8	8225.1	8571.4	6364.8
35°	9473.9	9398.7	9074.1	8549.7	8110.3	7936.1	8027.2	8120.2	8856.4	9276.0	6750.7
37.5°	10607.9	10505.0	10237.8	9796.5	9262.1	8907.9	8973.2	9082.0	9564.9	10226.0	7221.7
40°	11423.3	11296.6	11162.1	11096.8	10566.4	10081.5	10043.9	10071.6	10522.8	11116.5	7744.2
42.5°	11482.7	11639.0	11680.6	11943.8	11819.1	11421.3	11189.8	11195.7	11437.2	11997.2	8272.6
45°	11358.0	11213.5	11520.3	12238.7	12650.3	12836.4	12446.5	12397.0	12003.2	12507.8	8535.8
47.5°	10049.8	10089.4	10607.9	11743.9	12933.3	13764.6	13673.5	13509.3	12306.0	12490.0	8494.3
50°	7944.1	8183.5	8664.5	10079.5	12141.7	13911.0	14447.4	14067.4	12125.9	11999.2	8070.7
52.5°	5290.1	5389.1	5705.7	7532.4	9762.8	12434.6	13556.8	13643.8	11959.6	11356.0	7534.4
55°	2355.1	2347.2	2792.5	3934.4	6125.3	9462.0	11077.0	11607.4	11320.4	10700.9	7011.9
57.5°	997.5	1031.1	1213.2	1700.0	3012.2	5709.7	7504.7	7969.8	8706.0	8787.2	5379.2
60°	674.9	678.8	728.3	851.0	1260.7	2681.7	3936.4	4494.5	5020.9	4985.3	2853.8
62.5°	530.4	544.2	581.9	631.3	748.1	1217.1	1761.4	2072.1	2105.8	1771.3	1082.6
65°	453.2	455.2	492.8	534.4	585.8	708.5	849.0	864.9	874.8	843.1	795.6
67.5°	374.0	378.0	407.7	455.2	502.7	542.3	581.9	601.6	647.2	736.2	724.3
70°	296.9	302.8	328.5	368.1	411.7	435.4	484.9	502.7	544.2	613.5	641.2
72.5°	225.6	227.6	249.4	277.1	316.7	340.4	382.0	401.8	429.5	488.8	514.6
75°	162.3	168.2	184.1	197.9	203.8	219.7	259.3	281.0	320.6	346.3	348.3
77.5°	85.1	89.1	93.0	93.0	112.8	142.5	168.2	180.1	207.8	227.6	217.7
80°	33.6	35.6	45.5	61.4	79.2	102.9	120.7	126.7	150.4	162.3	168.2
82.5°	19.8	21.8	29.7	43.5	57.4	73.2	87.1	93.0	108.8	122.7	126.7
85°	9.9	11.9	17.8	27.7	37.6	45.5	43.5	41.6	41.6	39.6	41.6
87.5°	4.0	4.0	5.9	5.9	5.9	7.9	9.9	9.9	9.9	11.9	11.9
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°	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1	4629.1
2.5°	4635.0	4555.9	4482.6	4348.1	4201.6	4160.0	3989.8	3928.5	3885.0	3833.5	3817.7
5°	4658.8	4553.9	4318.4	4047.2	3831.5	3554.4	3372.4	3176.4	3033.9	2998.3	2988.4
7.5°	4708.3	4528.2	4122.4	3712.8	3271.4	2895.4	2608.4	2454.1	2317.5	2309.6	2295.7
10°	4763.7	4451.0	3908.7	3265.5	2701.5	2353.1	2181.0	2113.7	2080.0	2072.1	2068.1
12.5°	4809.2	4435.1	3669.2	2830.1	2297.7	2087.9	2036.5	2030.5	2044.4	2048.4	2056.3
15°	4829.0	4371.8	3380.3	2440.2	2046.4	1969.2	1991.0	2014.7	2024.6	2050.3	2030.5
17.5°	4866.6	4290.7	3024.0	2131.5	1905.9	1919.7	1957.3	1985.0	2000.9	2018.7	1992.9
20°	4886.4	4217.4	2689.6	1947.4	1856.4	1882.1	1933.6	1955.3	1975.1	1983.0	1953.4
22.5°	4868.6	4067.0	2394.7	1799.0	1808.9	1842.5	1888.1	1911.8	1899.9	1868.3	1850.4
25°	4821.1	3855.3	2087.9	1704.0	1741.6	1801.0	1836.6	1818.8	1797.0	1779.2	1773.3
27.5°	4819.1	3596.0	1866.3	1616.9	1684.2	1765.3	1753.5	1737.6	1747.5	1733.7	1717.8
30°	4829.0	3344.7	1684.2	1567.4	1642.6	1682.2	1696.1	1680.2	1692.1	1666.4	1674.3
32.5°	4777.5	3099.3	1565.5	1510.0	1593.2	1591.2	1636.7	1648.6	1620.9	1567.4	1575.4
35°	4799.3	2901.3	1464.5	1484.3	1537.8	1537.8	1573.4	1559.5	1486.3	1454.6	1462.5
37.5°	4949.7	2707.4	1415.0	1448.7	1484.3	1500.1	1488.3	1428.9	1411.1	1411.1	1415.0
40°	5092.2	2541.2	1385.4	1440.8	1434.8	1444.7	1357.7	1363.6	1363.6	1365.6	1355.7
42.5°	5218.9	2428.3	1361.6	1393.3	1403.2	1351.7	1298.3	1292.3	1306.2	1304.2	1296.3
45°	5264.4	2335.3	1328.0	1339.8	1347.8	1262.7	1236.9	1225.1	1240.9	1246.8	1254.7
47.5°	5090.2	2258.1	1290.4	1266.6	1250.8	1195.4	1161.7	1140.0	1159.7	1193.4	1201.3
50°	4866.6	2157.2	1231.0	1185.5	1151.8	1128.1	1104.3	1082.6	1096.4	1120.2	1114.2
52.5°	4536.1	1998.9	1155.8	1108.3	1050.9	1056.8	1035.1	1023.2	1031.1	1031.1	1025.2
55°	4065.0	1642.6	1029.1	995.5	948.0	963.8	967.8	951.9	936.1	950.0	938.1
57.5°	2774.7	1159.7	918.3	918.3	870.8	892.6	890.6	853.0	815.4	819.3	811.4
60°	1605.0	924.2	847.1	839.1	789.7	807.5	811.4	785.7	728.3	732.3	724.3
62.5°	912.4	789.7	740.2	728.3	718.4	734.2	734.2	700.6	651.1	655.1	647.2
65°	775.8	732.3	661.0	659.0	655.1	659.0	643.2	607.6	564.0	546.2	548.2
67.5°	704.6	676.8	607.6	589.8	577.9	575.9	546.2	512.6	492.8	477.0	475.0
70°	617.5	595.7	544.2	520.5	508.6	480.9	451.2	429.5	401.8	393.8	401.8
72.5°	488.8	486.9	467.1	441.3	415.6	393.8	368.1	338.4	312.7	306.8	292.9
75°	338.4	342.4	346.3	342.4	320.6	292.9	263.2	239.5	207.8	190.0	186.0
77.5°	221.7	227.6	233.5	225.6	211.8	186.0	166.2	136.6	112.8	99.0	97.0
80°	162.3	170.2	174.2	168.2	152.4	132.6	110.8	87.1	69.3	57.4	57.4
82.5°	124.7	132.6	136.6	126.7	110.8	95.0	79.2	61.4	47.5	37.6	35.6
85°	43.5	41.6	49.5	51.5	61.4	57.4	47.5	35.6	27.7	19.8	17.8
87.5°	11.9	11.9	13.9	13.9	11.9	9.9	9.9	9.9	7.9	5.9	5.9
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)