

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: P529142

Luminaire Tested: **GALN-SA4B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17773 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

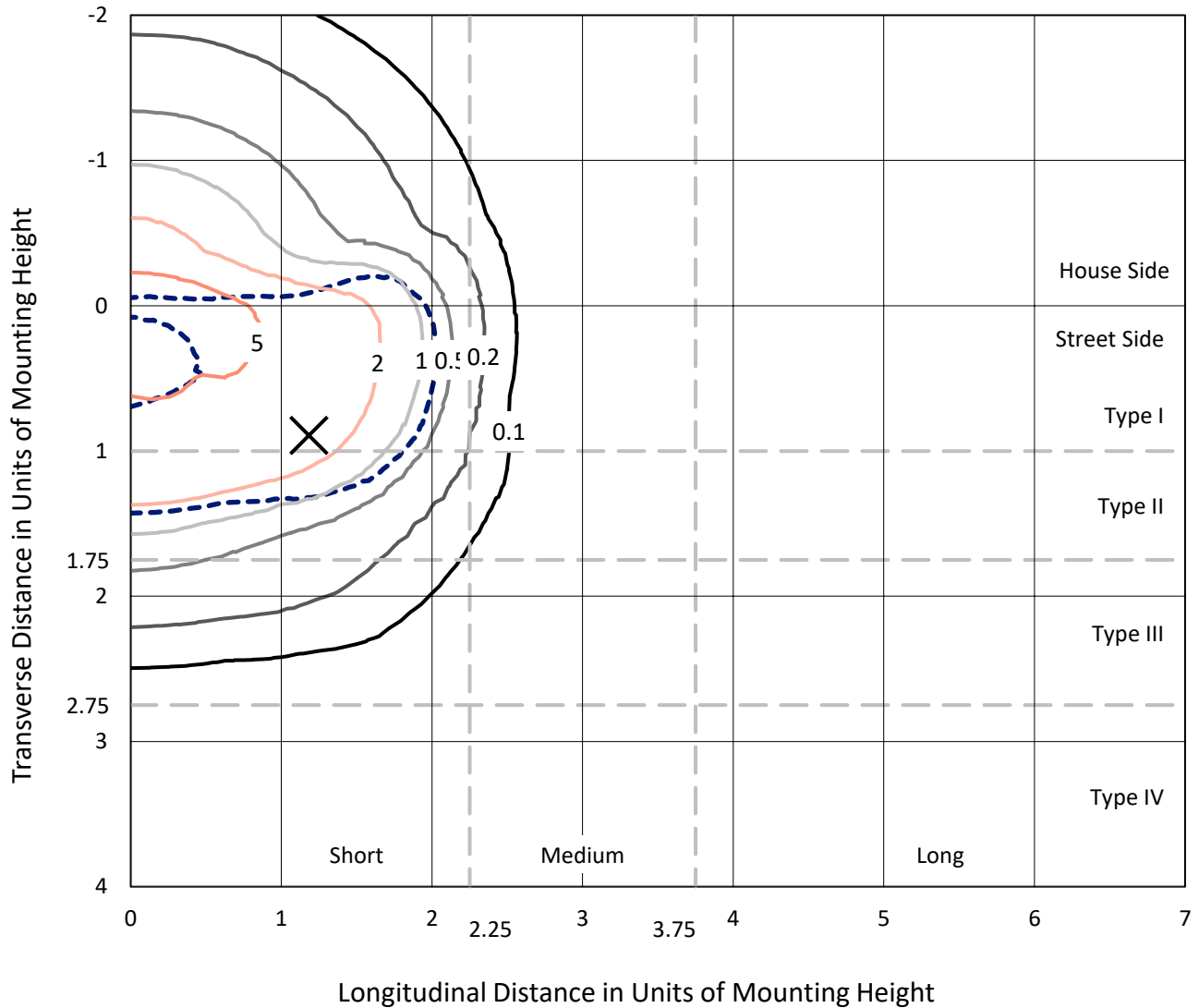
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529142
 CATALOG NUMBER: GALN-SA4B-735-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

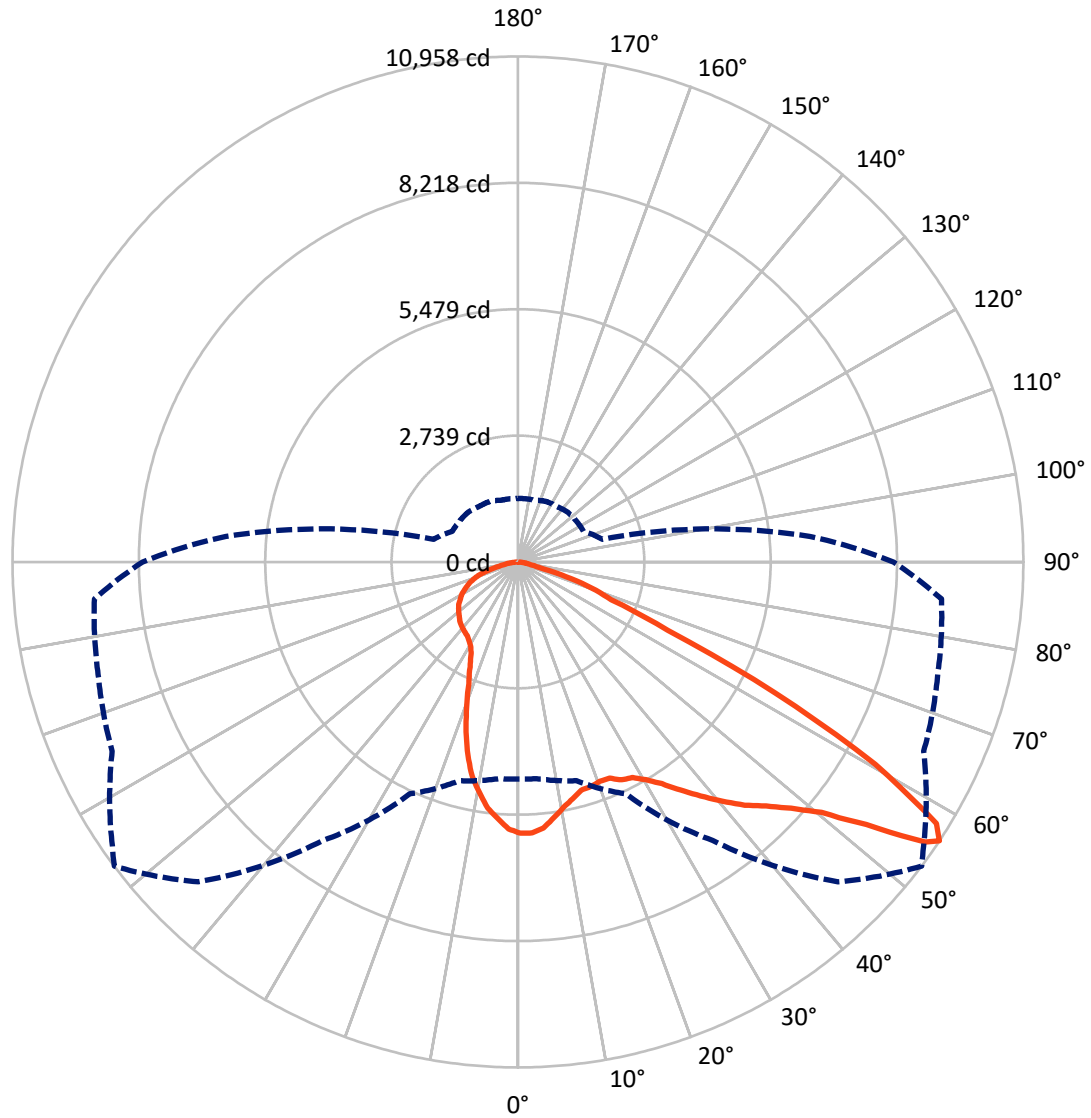
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

REPORT NUMBER: P529142
CATALOG NUMBER: GALN-SA4B-735-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5186.5	0.0	5186.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12586.5	0.0	12586.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	17773.0	0.0	17773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.5	2.9
10°-20°	1300.1	7.3
20°-30°	1917.1	10.8
30°-40°	2739.2	15.4
40°-50°	3770.1	21.2
50°-60°	4455.3	25.1
60°-70°	2374.4	13.4
70°-80°	602.4	3.4
80°-90°	93.9	0.5
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°	17773.0	100.0
0°-180°	17773.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529142

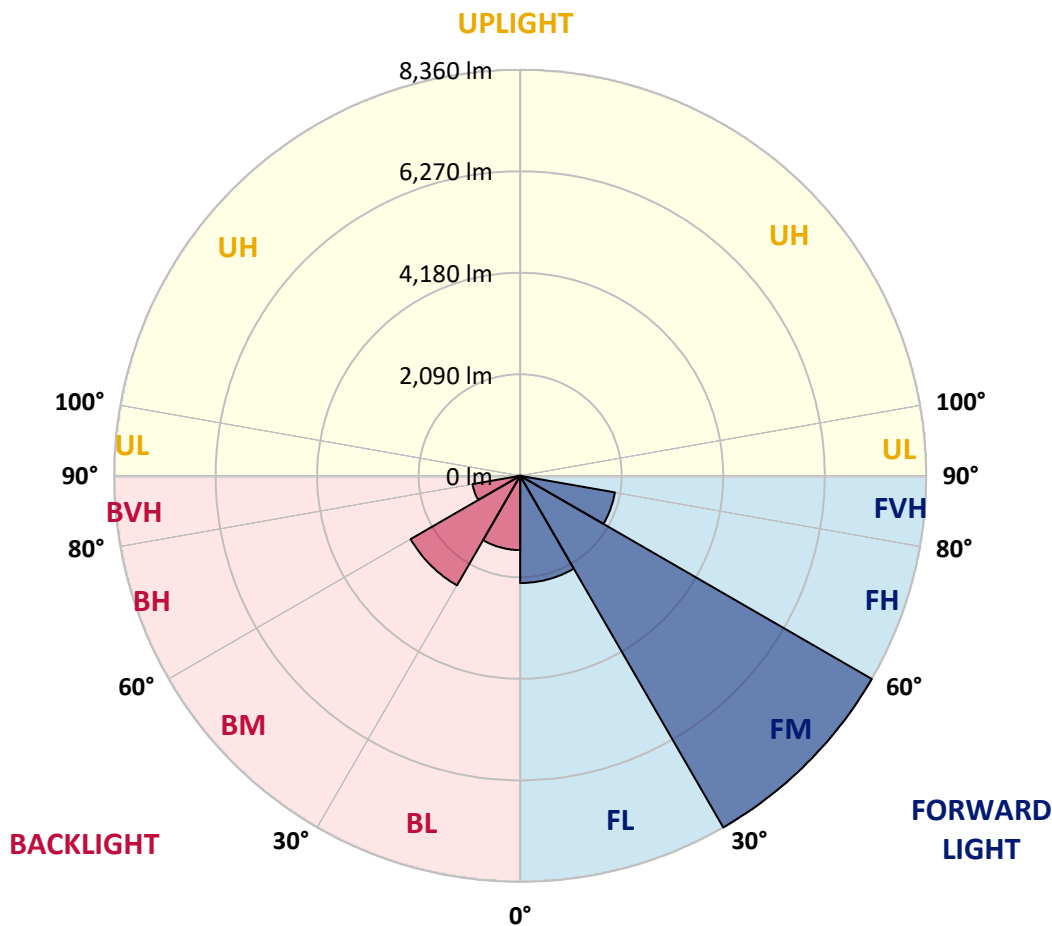
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2208.0	12.4			
FM (30°-60°)	8360.1	47.0			
FH (60°-80°)	1980.6	11.1			G2/5000
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	1529.7	8.6	B3/2500		
BM (30°-60°)	2604.5	14.7	B3/5000		
BH (60°-80°)	996.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	56.2	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-G2

Type II Short





REPORT NUMBER: P529142

CATALOG NUMBER: GALN-SA4B-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0
2.5°	5807.1	5756.9	5786.5	5775.1	5868.6	5896.0	5882.3	5893.7	5946.1	5921.0	5868.6
5°	5426.3	5497.0	5510.7	5544.9	5599.6	5706.7	5791.1	5813.9	5839.0	5955.2	5943.8
7.5°	5079.7	5127.6	5102.5	5202.9	5321.4	5494.7	5597.3	5615.5	5845.8	5909.6	5957.5
10°	4860.9	4813.0	4927.0	4954.3	5088.9	5287.2	5410.3	5485.6	5695.3	5948.4	5978.0
12.5°	4658.0	4642.0	4710.4	4787.9	4938.4	5143.6	5269.0	5298.6	5622.4	5889.1	6028.2
15°	4507.5	4489.2	4557.6	4614.6	4790.2	4972.6	5132.2	5216.5	5542.6	5854.9	5984.9
17.5°	4388.9	4386.6	4425.4	4528.0	4708.1	4860.9	5118.5	5123.1	5501.5	5907.4	6021.4
20°	4382.1	4379.8	4386.6	4500.6	4664.8	4851.7	5075.2	5116.2	5501.5	5870.9	6023.6
22.5°	4439.1	4402.6	4443.6	4516.6	4635.2	4867.7	5091.1	5182.3	5633.8	6051.0	6126.2
25°	4530.3	4539.4	4562.2	4587.3	4655.7	4904.2	5232.5	5307.7	5788.8	6206.0	6267.6
27.5°	4696.7	4692.2	4701.3	4715.0	4774.2	4938.4	5289.5	5483.3	6112.6	6481.9	6420.4
30°	4940.7	4924.7	4961.2	5009.1	4954.3	5047.8	5478.7	5624.7	6413.5	6760.1	6591.4
32.5°	5161.8	5221.1	5289.5	5310.0	5243.9	5262.1	5729.5	5877.7	6664.3	7102.1	6801.1
35°	5437.7	5485.6	5576.8	5640.6	5629.2	5574.5	6071.5	6267.6	7026.8	7352.9	7022.3
37.5°	5706.7	5763.7	5914.2	6103.4	5998.6	5973.5	6436.3	6598.2	7138.5	7487.4	7184.1
40°	6139.9	6137.6	6397.6	6495.6	6589.1	6545.8	6814.8	6869.5	7197.8	7457.7	7188.7
42.5°	6648.4	6616.4	6880.9	7033.7	7154.5	7159.1	7209.2	7191.0	7225.2	7307.3	7140.8
45°	7131.7	7200.1	7466.9	7740.5	7861.3	7875.0	7542.1	7507.9	7273.1	7263.9	7049.6
47.5°	7722.2	7738.2	7957.0	8317.3	8597.7	8502.0	7973.0	7897.8	7482.8	7553.5	7202.4
50°	7756.4	7875.0	8071.0	8495.1	9356.9	9331.9	8531.6	8390.2	7820.3	7963.9	7628.7
52.5°	7040.5	7013.1	7245.7	7938.8	9299.9	10157.2	9457.3	9119.8	8545.3	8435.8	8319.6
55°	5364.7	5428.6	5633.8	6333.7	8075.6	10168.6	10718.1	10442.2	9320.5	9133.5	8999.0
56°	4705.8	4715.0	4908.7	5547.1	7368.8	9806.1	10957.5	10734.0	9705.8	9420.8	9215.6
57.5°	3901.0	3848.6	3948.9	4297.7	6219.7	9040.0	10695.3	10914.2	10157.2	9730.9	9445.9
60°	3071.1	3059.7	3018.7	3082.5	3930.6	6810.2	8903.2	9395.7	10111.6	9439.0	9046.9
62.5°	2508.0	2451.0	2533.0	2624.2	2731.4	4224.8	6256.2	6545.8	8027.7	7535.3	6796.6
65°	1944.8	1917.4	2020.0	2316.4	2380.3	2683.5	3563.6	3787.0	4740.0	4655.7	4099.4
67.5°	1338.3	1342.9	1431.8	1883.2	2207.0	2179.6	2181.9	2298.2	2473.8	1837.6	1600.5
70°	848.1	845.9	893.7	1212.9	1776.1	1794.3	1703.1	1668.9	1582.3	957.6	1014.6
72.5°	544.9	529.0	554.0	670.3	918.8	1062.5	1094.4	1114.9	916.5	752.4	816.2
75°	307.8	291.8	282.7	312.4	362.5	419.5	460.6	474.2	531.2	570.0	604.2
77.5°	93.5	84.4	102.6	136.8	180.1	241.7	294.1	303.2	358.0	403.6	437.8
80°	41.0	45.6	63.8	91.2	127.7	171.0	207.5	221.2	257.6	291.8	301.0
82.5°	25.1	27.4	43.3	61.6	88.9	120.8	148.2	152.8	189.2	216.6	223.4
85°	9.1	11.4	22.8	36.5	57.0	77.5	77.5	84.4	77.5	77.5	84.4
87.5°	0.0	0.0	2.3	4.6	4.6	6.8	9.1	9.1	11.4	13.7	16.0
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°	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0	5880.0
2.5°	5896.0	5884.6	5866.3	5800.2	5793.4	5772.9	5658.9	5640.6	5658.9	5604.1	5608.7
5°	5884.6	5918.8	5782.0	5715.9	5592.7	5503.8	5401.2	5348.8	5255.3	5196.0	5262.1
7.5°	5934.7	5921.0	5750.1	5606.4	5421.7	5196.0	5015.9	4913.3	4749.2	4703.6	4737.8
10°	5916.5	5843.5	5642.9	5453.7	5104.8	4906.5	4614.6	4331.9	4176.9	4097.1	4085.7
12.5°	5891.4	5870.9	5535.7	5209.7	4842.6	4425.4	4015.0	3748.2	3495.2	3385.7	3401.7
15°	5921.0	5747.8	5335.1	4922.4	4434.5	3887.3	3445.0	3100.7	2925.2	2854.5	2854.5
17.5°	5907.4	5688.5	5239.3	4601.0	3983.1	3335.6	2849.9	2642.5	2569.5	2569.5	2590.0
20°	5914.2	5727.3	5045.5	4279.5	3449.6	2808.9	2455.5	2380.3	2412.2	2423.6	2435.0
22.5°	5953.0	5599.6	4856.3	3926.1	2954.8	2403.1	2229.8	2232.1	2289.1	2350.6	2339.2
25°	6000.8	5549.4	4626.0	3575.0	2576.4	2204.7	2150.0	2143.2	2186.5	2218.4	2223.0
27.5°	5959.8	5462.8	4391.2	3137.2	2266.3	2072.5	2061.1	2065.6	2079.3	2143.2	2122.6
30°	6094.3	5487.9	4097.1	2770.1	2095.3	2029.2	2015.5	2008.6	2029.2	2047.4	2031.4
32.5°	6260.8	5398.9	3878.2	2416.8	2010.9	1997.2	1969.9	1960.8	1972.2	1953.9	1963.0
35°	6333.7	5383.0	3593.2	2163.7	1944.8	1933.4	1917.4	1915.2	1917.4	1901.5	1887.8
37.5°	6374.8	5458.2	3267.2	2047.4	1903.8	1915.2	1878.7	1874.1	1833.1	1842.2	1849.0
40°	6445.4	5341.9	3002.7	1935.7	1878.7	1855.9	1824.0	1817.1	1789.8	1773.8	1789.8
42.5°	6342.8	5307.7	2742.8	1887.8	1842.2	1817.1	1794.3	1755.6	1746.4	1732.8	1723.6
45°	6260.8	5111.7	2510.2	1828.5	1798.9	1785.2	1741.9	1700.8	1666.6	1680.3	1659.8
47.5°	6322.3	5043.3	2280.0	1778.4	1739.6	1723.6	1680.3	1648.4	1614.2	1598.2	1593.7
50°	6568.6	5170.9	2086.2	1741.9	1689.4	1680.3	1623.3	1586.9	1554.9	1543.5	1548.1
52.5°	7156.8	5519.8	1953.9	1666.6	1641.6	1600.5	1568.6	1523.0	1502.5	1466.0	1488.8
55°	7902.3	6087.5	1919.7	1596.0	1582.3	1545.8	1502.5	1468.3	1429.5	1399.9	1393.1
56°	8141.7	6358.8	1892.4	1568.6	1545.8	1525.3	1468.3	1447.8	1386.2	1379.4	1374.8
57.5°	8335.5	6598.2	1896.9	1516.2	1493.4	1475.1	1440.9	1390.8	1349.7	1324.7	1336.1
60°	7897.8	6176.4	1810.3	1436.4	1431.8	1397.6	1349.7	1326.9	1276.8	1247.1	1240.3
62.5°	5870.9	4192.8	1468.3	1333.8	1331.5	1295.0	1240.3	1215.2	1206.1	1165.1	1165.1
65°	3381.2	2628.8	1269.9	1249.4	1231.2	1194.7	1140.0	1119.5	1096.7	1083.0	1071.6
67.5°	1443.2	1363.4	1153.7	1151.4	1130.9	1085.3	1030.5	998.6	969.0	941.6	955.3
70°	1046.5	1062.5	1041.9	1030.5	1005.5	948.5	900.6	861.8	816.2	798.0	811.7
72.5°	829.9	864.1	893.7	896.0	866.4	800.3	747.8	695.4	645.2	620.1	631.5
75°	629.3	652.1	681.7	688.5	645.2	599.6	549.5	494.8	456.0	426.4	430.9
77.5°	453.7	449.2	476.5	472.0	451.4	419.5	373.9	323.8	280.4	253.1	255.4
80°	310.1	316.9	332.9	330.6	305.5	285.0	250.8	209.8	177.8	155.0	150.5
82.5°	216.6	228.0	241.7	230.3	209.8	189.2	164.2	134.5	109.4	91.2	86.6
85°	77.5	88.9	102.6	109.4	116.3	111.7	93.5	75.2	54.7	45.6	43.3
87.5°	16.0	18.2	20.5	20.5	20.5	18.2	16.0	16.0	13.7	6.8	6.8
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)