

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: P529974

Luminaire Tested: **GALN-SA5A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529974
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-SA5A-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 15425 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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

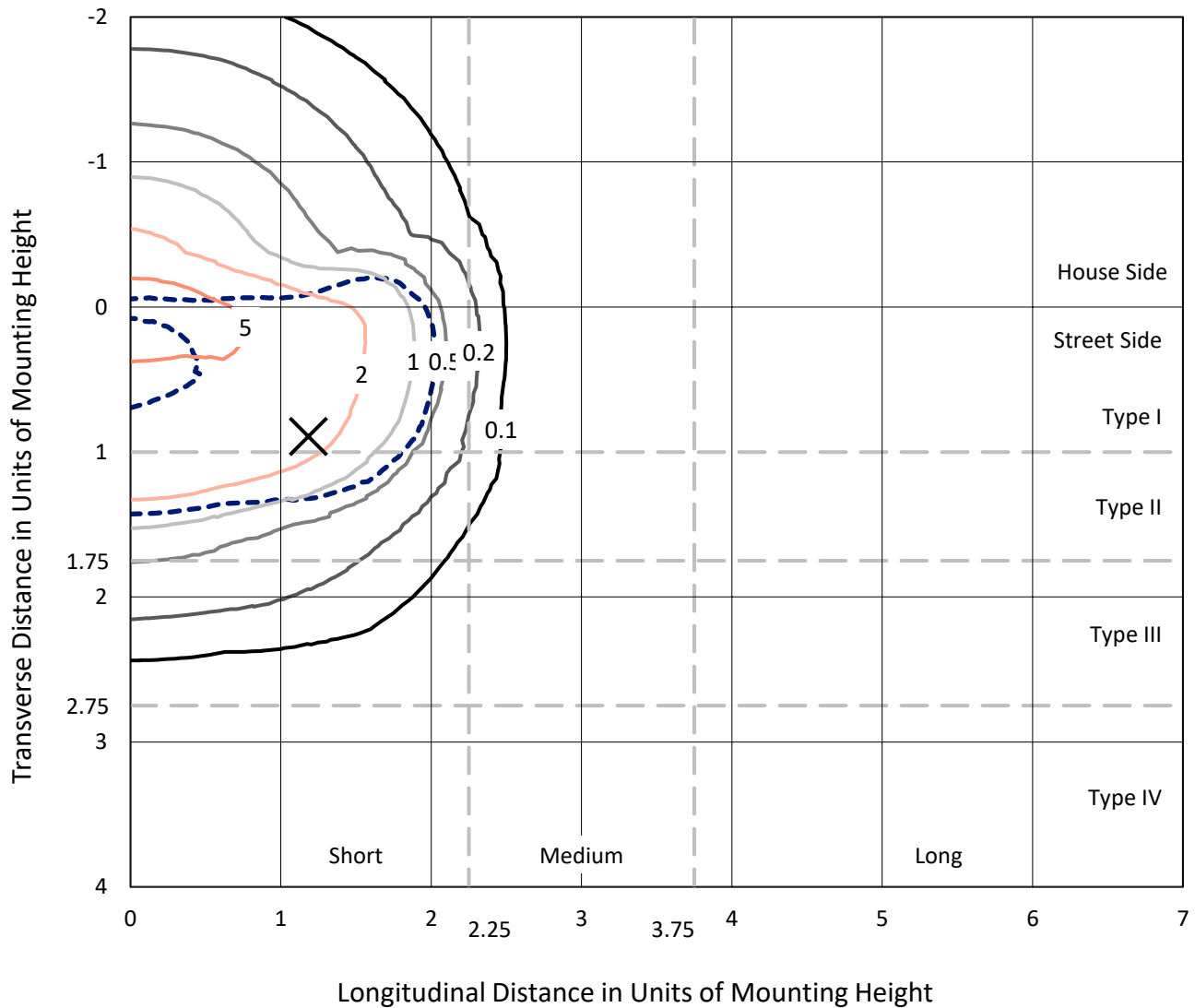


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

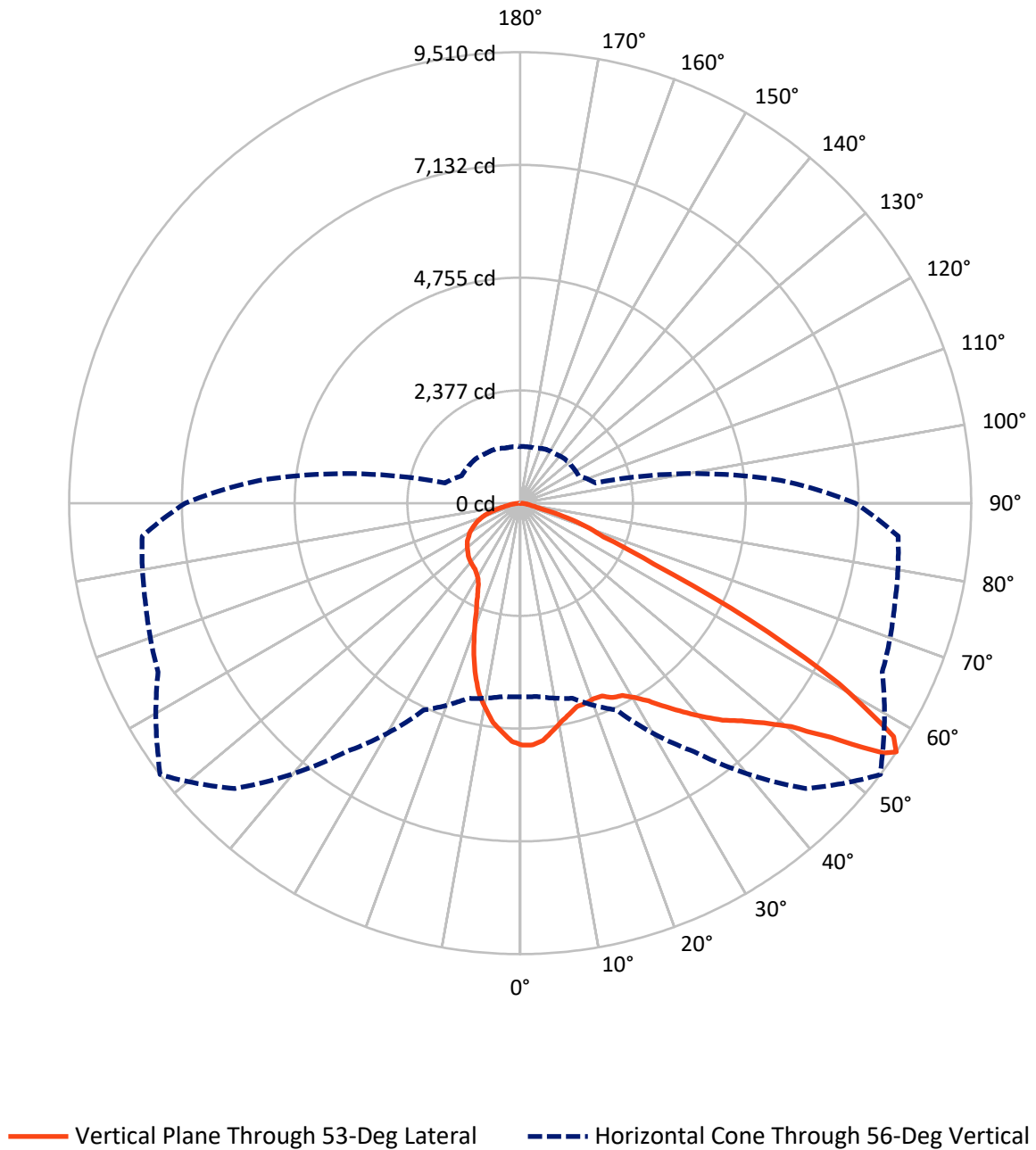


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4501.4	0.0	4501.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10923.7	0.0	10923.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	15425.0	0.0	15425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	2.9
10°-20°	1128.3	7.3
20°-30°	1663.8	10.8
30°-40°	2377.3	15.4
40°-50°	3272.1	21.2
50°-60°	3866.7	25.1
60°-70°	2060.7	13.4
70°-80°	522.8	3.4
80°-90°	81.5	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°	15425.0	100.0
0°-180°	15425.0	100.0

Coefficient of Utilization



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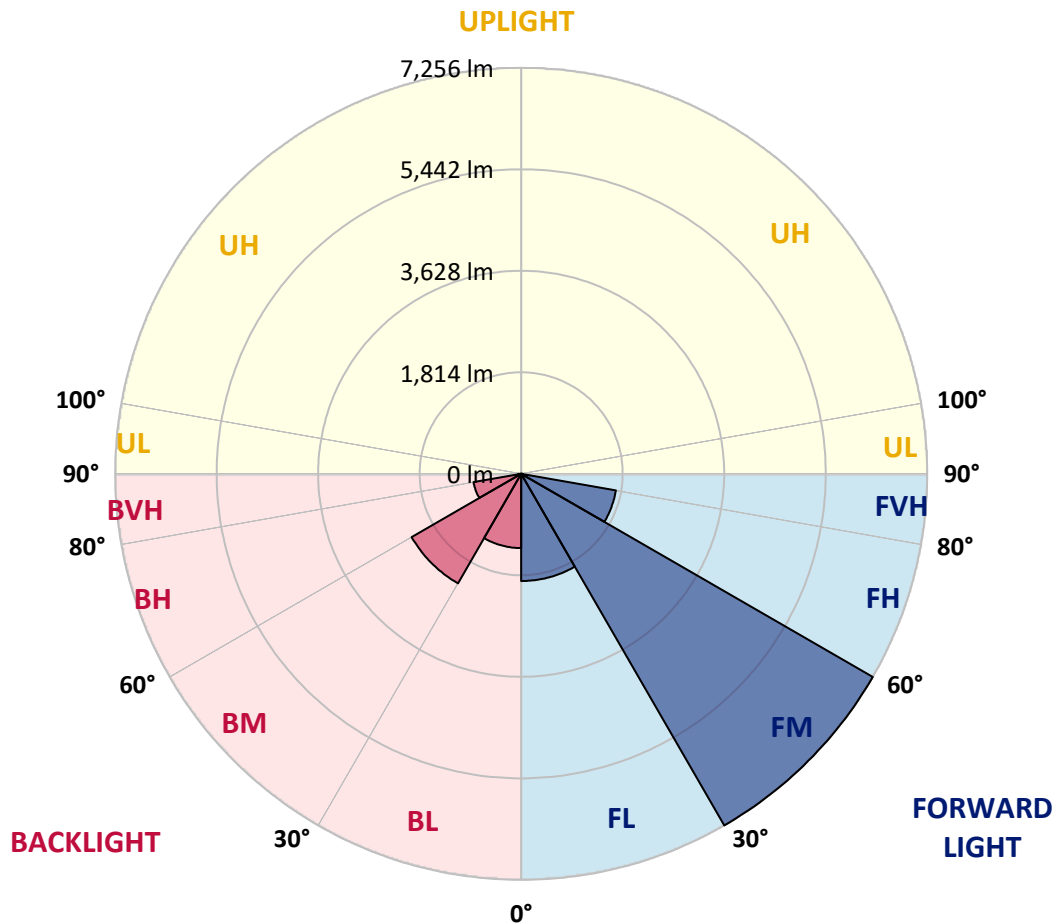
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1916.3	12.4			
FM	(30°-60°)	7255.6	47.0			
FH	(60°-80°)	1718.9	11.1			G1/1800
FVH	(80°-90°)	32.8	0.2			G1/100
BL	(0°-30°)	1327.6	8.6	B3/2500		
BM	(30°-60°)	2260.4	14.7	B2/2500		
BH	(60°-80°)	864.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	48.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2
2.5°	5039.9	4996.3	5022.1	5012.2	5093.3	5117.0	5105.2	5115.1	5160.6	5138.8	5093.3
5°	4709.4	4770.8	4782.6	4812.3	4859.8	4952.8	5026.0	5045.8	5067.6	5168.5	5158.6
7.5°	4408.7	4450.2	4428.4	4515.5	4618.4	4768.8	4857.8	4873.7	5073.5	5128.9	5170.5
10°	4218.7	4177.1	4276.1	4299.8	4416.6	4588.7	4695.6	4760.9	4942.9	5162.6	5188.3
12.5°	4042.6	4028.7	4088.1	4155.4	4286.0	4464.1	4572.9	4598.6	4879.6	5111.1	5231.8
15°	3912.0	3896.2	3955.5	4005.0	4157.4	4315.7	4454.2	4527.4	4810.3	5081.4	5194.2
17.5°	3809.1	3807.1	3840.8	3929.8	4086.1	4218.7	4442.3	4446.3	4774.7	5126.9	5225.9
20°	3803.2	3801.2	3807.1	3906.1	4048.5	4210.8	4404.7	4440.3	4774.7	5095.3	5227.9
22.5°	3852.6	3821.0	3856.6	3919.9	4022.8	4224.6	4418.6	4497.7	4889.5	5251.6	5316.9
25°	3931.8	3939.7	3959.5	3981.2	4040.6	4256.3	4541.2	4606.5	5024.0	5386.2	5439.6
27.5°	4076.2	4072.3	4080.2	4092.1	4143.5	4286.0	4590.7	4758.9	5305.0	5625.6	5572.2
30°	4288.0	4274.1	4305.8	4347.3	4299.8	4381.0	4754.9	4881.6	5566.2	5867.0	5720.6
32.5°	4479.9	4531.3	4590.7	4608.5	4551.1	4567.0	4972.6	5101.2	5783.9	6163.8	5902.6
35°	4719.3	4760.9	4840.0	4895.4	4885.5	4838.0	5269.4	5439.6	6098.5	6381.5	6094.6
37.5°	4952.8	5002.3	5132.9	5297.1	5206.1	5184.3	5586.0	5726.5	6195.5	6498.2	6235.0
40°	5328.8	5326.8	5552.4	5637.5	5718.6	5681.0	5914.5	5962.0	6246.9	6472.5	6239.0
42.5°	5770.0	5742.3	5971.9	6104.4	6209.3	6213.3	6256.8	6241.0	6270.7	6341.9	6197.4
45°	6189.5	6248.9	6480.4	6717.9	6822.7	6834.6	6545.7	6516.0	6312.2	6304.3	6118.3
47.5°	6702.0	6715.9	6905.8	7218.5	7461.9	7378.8	6919.7	6854.4	6494.3	6555.6	6250.9
50°	6731.7	6834.6	7004.8	7372.8	8120.8	8099.0	7404.5	7281.8	6787.1	6911.8	6620.9
52.5°	6110.4	6086.6	6288.5	6890.0	8071.3	8815.3	8207.9	7915.0	7416.4	7321.4	7220.5
55°	4656.0	4711.4	4889.5	5497.0	7008.7	8825.2	9302.1	9062.7	8089.1	7926.9	7810.1
56°	4084.1	4092.1	4260.3	4814.3	6395.3	8510.6	9509.9	9316.0	8423.5	8176.2	7998.1
57.5°	3385.6	3340.1	3427.2	3729.9	5398.0	7845.7	9282.3	9472.3	8815.3	8445.3	8198.0
60°	2665.4	2655.5	2619.9	2675.3	3411.4	5910.5	7727.0	8154.4	8775.8	8192.0	7851.7
62.5°	2176.6	2127.2	2198.4	2277.5	2370.5	3666.6	5429.7	5681.0	6967.2	6539.8	5898.7
65°	1687.9	1664.1	1753.2	2010.4	2065.8	2329.0	3092.8	3286.7	4113.8	4040.6	3557.8
67.5°	1161.5	1165.5	1242.7	1634.4	1915.4	1891.7	1893.7	1994.6	2146.9	1594.9	1389.1
70°	736.1	734.1	775.7	1052.7	1541.4	1557.3	1478.1	1448.4	1373.3	831.1	880.5
72.5°	472.9	459.1	480.8	581.8	797.4	922.1	949.8	967.6	795.5	653.0	708.4
75°	267.1	253.3	245.4	271.1	314.6	364.1	399.7	411.6	461.0	494.7	524.4
77.5°	81.1	73.2	89.0	118.7	156.3	209.7	255.3	263.2	310.7	350.2	379.9
80°	35.6	39.6	55.4	79.2	110.8	148.4	180.1	191.9	223.6	253.3	261.2
82.5°	21.8	23.7	37.6	53.4	77.2	104.9	128.6	132.6	164.2	188.0	193.9
85°	7.9	9.9	19.8	31.7	49.5	67.3	67.3	73.2	67.3	67.3	73.2
87.5°	0.0	0.0	2.0	4.0	4.0	5.9	7.9	7.9	9.9	11.9	13.9
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°	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2	5103.2
2.5°	5117.0	5107.2	5091.3	5033.9	5028.0	5010.2	4911.3	4895.4	4911.3	4863.8	4867.7
5°	5107.2	5136.8	5018.1	4960.7	4853.9	4776.7	4687.7	4642.1	4561.0	4509.6	4567.0
7.5°	5150.7	5138.8	4990.4	4865.7	4705.5	4509.6	4353.3	4264.2	4121.7	4082.2	4111.8
10°	5134.9	5071.5	4897.4	4733.2	4430.4	4258.3	4005.0	3759.6	3625.1	3555.8	3545.9
12.5°	5113.1	5095.3	4804.4	4521.4	4202.9	3840.8	3484.6	3253.1	3033.4	2938.4	2952.3
15°	5138.8	4988.4	4630.3	4272.1	3848.7	3373.8	2989.9	2691.1	2538.7	2477.4	2477.4
17.5°	5126.9	4937.0	4547.2	3993.1	3456.9	2894.9	2473.4	2293.4	2230.1	2230.1	2247.9
20°	5132.9	4970.6	4379.0	3714.1	2993.8	2437.8	2131.1	2065.8	2093.5	2103.4	2113.3
22.5°	5166.5	4859.8	4214.7	3407.4	2564.5	2085.6	1935.2	1937.2	1986.7	2040.1	2030.2
25°	5208.1	4816.3	4014.9	3102.7	2236.0	1913.5	1866.0	1860.0	1897.6	1925.3	1929.3
27.5°	5172.5	4741.1	3811.1	2722.8	1966.9	1798.7	1788.8	1792.7	1804.6	1860.0	1842.2
30°	5289.2	4762.9	3555.8	2404.2	1818.5	1761.1	1749.2	1743.3	1761.1	1776.9	1763.1
32.5°	5433.6	4685.7	3365.9	2097.5	1745.3	1733.4	1709.6	1701.7	1711.6	1695.8	1703.7
35°	5497.0	4671.8	3118.5	1877.8	1687.9	1678.0	1664.1	1662.2	1664.1	1650.3	1638.4
37.5°	5532.6	4737.1	2835.5	1776.9	1652.3	1662.2	1630.5	1626.5	1590.9	1598.8	1604.8
40°	5593.9	4636.2	2606.0	1680.0	1630.5	1610.7	1583.0	1577.1	1553.3	1539.5	1553.3
42.5°	5504.9	4606.5	2380.4	1638.4	1598.8	1577.1	1557.3	1523.6	1515.7	1503.9	1495.9
45°	5433.6	4436.4	2178.6	1587.0	1561.2	1549.4	1511.8	1476.1	1446.5	1458.3	1440.5
47.5°	5487.1	4377.0	1978.8	1543.4	1509.8	1495.9	1458.3	1430.6	1401.0	1387.1	1383.1
50°	5700.8	4487.8	1810.6	1511.8	1466.3	1458.3	1408.9	1377.2	1349.5	1339.6	1343.6
52.5°	6211.3	4790.6	1695.8	1446.5	1424.7	1389.1	1361.4	1321.8	1304.0	1272.3	1292.1
55°	6858.3	5283.3	1666.1	1385.1	1373.3	1341.6	1304.0	1274.3	1240.7	1215.0	1209.0
56°	7066.1	5518.7	1642.4	1361.4	1341.6	1323.8	1274.3	1256.5	1203.1	1197.1	1193.2
57.5°	7234.3	5726.5	1646.3	1315.9	1296.1	1280.3	1250.6	1207.0	1171.4	1149.7	1159.5
60°	6854.4	5360.4	1571.1	1246.6	1242.7	1213.0	1171.4	1151.6	1108.1	1082.4	1076.4
62.5°	5095.3	3638.9	1274.3	1157.6	1155.6	1123.9	1076.4	1054.7	1046.8	1011.1	1011.1
65°	2934.5	2281.5	1102.2	1084.4	1068.5	1036.9	989.4	971.6	951.8	939.9	930.0
67.5°	1252.5	1183.3	1001.2	999.3	981.5	941.9	894.4	866.7	841.0	817.2	829.1
70°	908.2	922.1	904.3	894.4	872.6	823.2	781.6	748.0	708.4	692.6	704.4
72.5°	720.3	749.9	775.7	777.6	751.9	694.5	649.0	603.5	560.0	538.2	548.1
75°	546.1	565.9	591.6	597.6	560.0	520.4	476.9	429.4	395.8	370.0	374.0
77.5°	393.8	389.8	413.6	409.6	391.8	364.1	324.5	281.0	243.4	219.6	221.6
80°	269.1	275.0	288.9	286.9	265.2	247.3	217.7	182.0	154.3	134.6	130.6
82.5°	188.0	197.9	209.7	199.9	182.0	164.2	142.5	116.7	95.0	79.2	75.2
85°	67.3	77.2	89.0	95.0	100.9	97.0	81.1	65.3	47.5	39.6	37.6
87.5°	13.9	15.8	17.8	17.8	17.8	15.8	13.9	13.9	11.9	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)