

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: P531053

Luminaire Tested: **GALN-SA6B-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20521 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

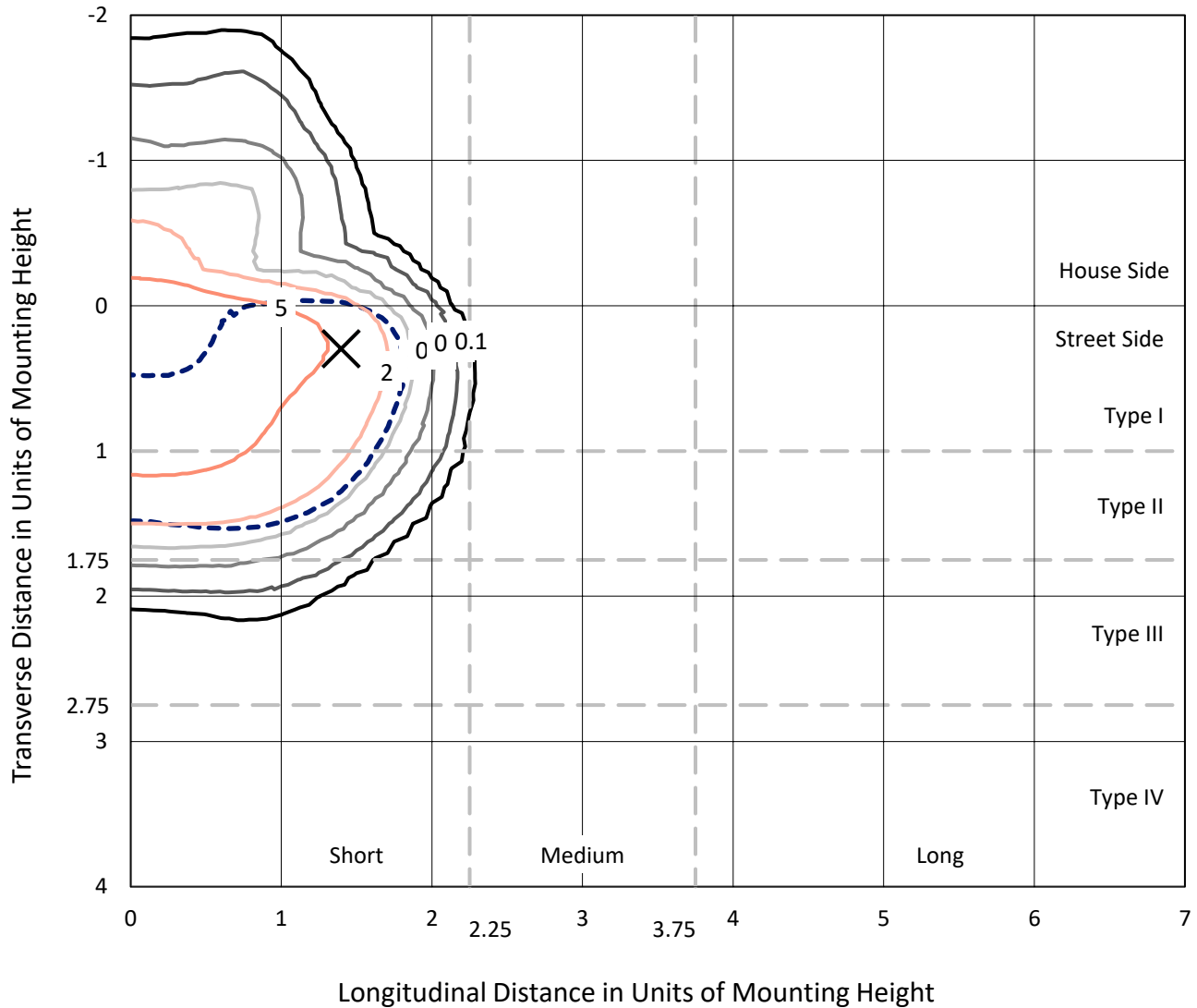
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

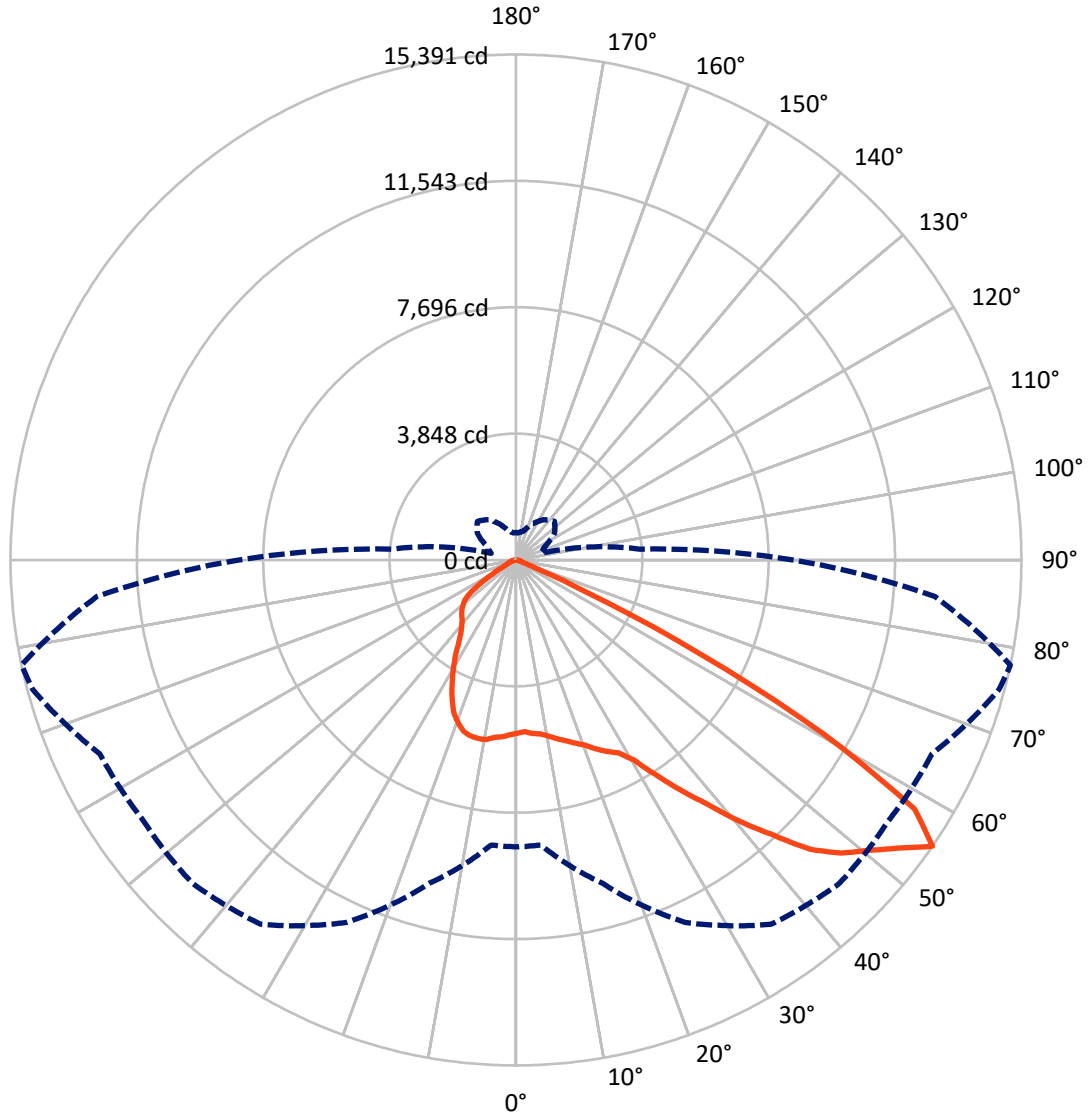
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3811.6	0.0	3811.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16709.4	0.0	16709.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	20521.0	0.0	20521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.4	2.3
10°-20°	1245.0	6.1
20°-30°	2182.3	10.6
30°-40°	3598.4	17.5
40°-50°	5236.1	25.5
50°-60°	5933.1	28.9
60°-70°	1696.4	8.3
70°-80°	131.7	0.6
80°-90°	27.4	0.1
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°	20521.0	100.0
0°-180°	20521.0	100.0

Coefficient of Utilization



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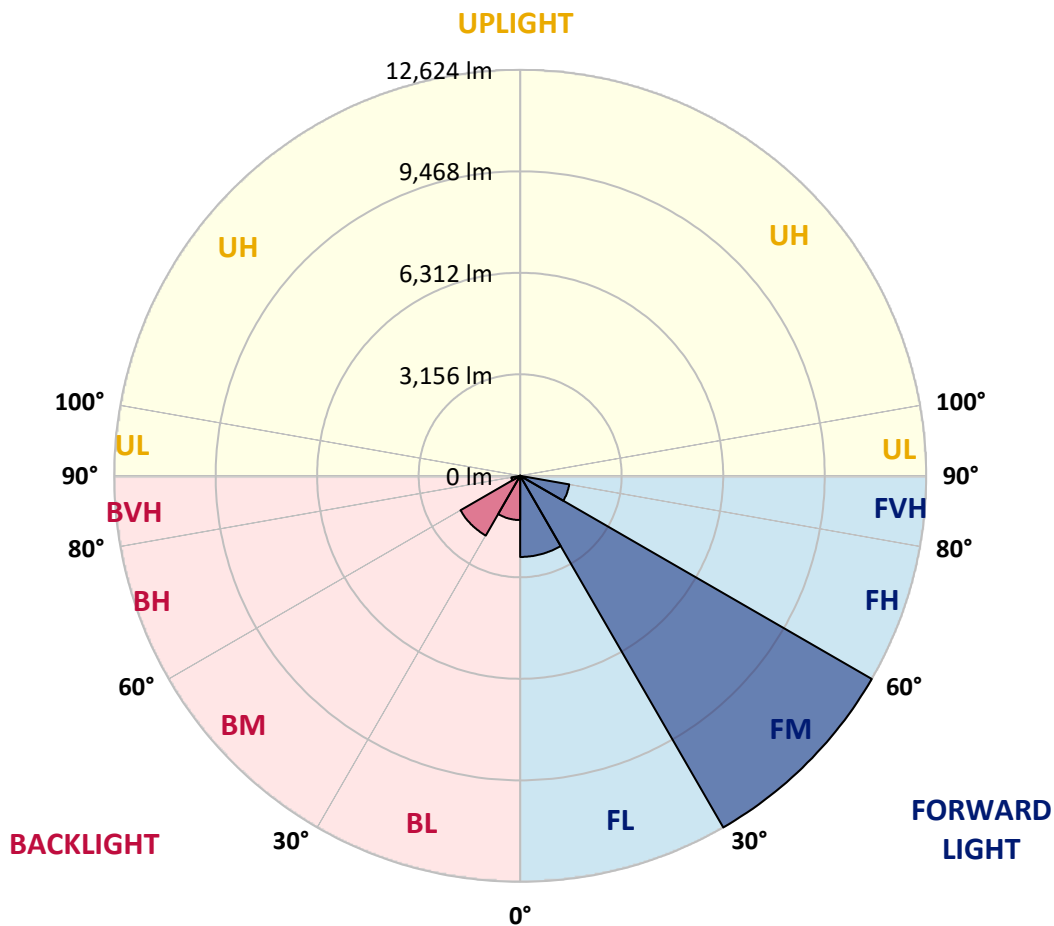
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2522.6	12.3			
FM (30°-60°)	12623.6	61.5			
FH (60°-80°)	1549.9	7.6			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1375.2	6.7	B3/2500		
BM (30°-60°)	2144.1	10.4	B2/2500		
BH (60°-80°)	278.2	1.4	B1/500		G1/500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0
2.5°	4960.4	5008.1	5015.5	5074.2	5070.5	5169.6	5198.9	5202.6	5268.6	5235.6	5320.0
5°	4821.0	4795.3	4784.3	4887.1	4916.4	5004.5	5077.8	5121.9	5257.6	5305.3	5393.4
7.5°	4696.3	4696.3	4703.6	4795.3	4784.3	4898.1	4975.1	5110.9	5309.0	5349.3	5455.7
10°	4575.2	4531.2	4586.2	4681.6	4762.3	4813.7	4975.1	5103.5	5334.7	5452.1	5598.8
12.5°	4512.8	4534.8	4542.2	4611.9	4699.9	4854.0	4942.1	5154.9	5518.1	5587.8	5745.6
15°	4905.4	4861.4	4755.0	4692.6	4766.0	4839.4	5059.5	5276.0	5613.5	5712.6	5888.7
17.5°	5360.3	5323.7	5235.6	5066.8	4901.7	5037.5	5209.9	5408.0	5716.2	5863.0	6123.5
20°	5954.7	5896.0	5808.0	5477.8	5334.7	5187.9	5371.4	5606.2	5885.0	6017.1	6284.9
22.5°	6662.8	6662.8	6464.7	6064.8	5767.6	5628.2	5705.2	5841.0	6072.1	6251.9	6516.1
25°	7400.3	7378.3	7198.5	6783.9	6281.3	6116.2	6204.2	6299.6	6362.0	6461.0	6637.1
27.5°	8244.1	8115.7	7888.3	7429.6	6985.7	6666.5	6761.9	6677.5	6600.5	6651.8	6905.0
30°	8816.5	8897.2	8607.4	8167.1	7748.8	7392.9	7411.3	7337.9	6985.7	7059.1	7209.5
32.5°	9410.9	9462.2	9300.8	9058.7	8640.4	8225.8	8075.4	8013.0	7748.8	7781.9	7635.1
35°	9906.2	10005.2	9862.2	9755.8	9634.7	9300.8	8886.2	9088.0	8662.4	8581.7	8200.1
37.5°	10361.1	10331.8	10500.6	10390.5	10364.8	10130.0	9675.0	9715.4	9429.2	9410.9	8970.6
40°	10768.4	10775.7	11006.9	11058.2	10955.5	10537.2	9876.8	10196.0	10427.2	10449.2	9884.2
42.5°	11105.9	11205.0	11403.1	11817.7	11663.6	10966.5	10086.0	10434.5	11293.1	11428.8	10750.0
45°	11399.5	11601.2	11847.1	12217.6	12129.6	11575.6	10607.0	10926.2	12217.6	12573.5	11564.6
47.5°	11417.8	11682.0	11949.8	12500.1	12610.2	11902.1	11146.3	11704.0	12951.4	13336.7	12158.9
50°	11344.4	11483.8	12019.5	12617.5	12867.0	12434.1	11902.1	12357.0	13663.2	13905.3	12459.8
52.5°	10474.9	10581.3	11656.3	12727.6	13329.3	13035.8	12903.7	13267.0	14389.7	14569.4	12742.3
55°	8732.1	8713.8	10192.4	12173.6	13542.1	13927.4	13846.6	13975.1	15229.8	15391.3	12812.0
57.5°	5973.1	6306.9	7583.7	10137.3	12239.6	13718.2	13802.6	13589.8	14250.2	14312.6	11168.3
60°	3221.3	3360.8	4388.1	6765.6	9319.2	11179.3	11399.5	11014.2	10962.8	10786.7	7972.6
62.5°	1280.5	1350.2	1933.5	3349.8	5077.8	6794.9	7268.2	7110.4	6772.9	6310.6	4127.6
65°	609.0	653.1	961.3	1566.6	2252.7	2832.4	3305.7	3452.5	2546.3	2293.1	1361.2
67.5°	414.6	447.6	700.8	895.2	803.5	840.2	1093.3	1016.3	598.0	510.0	377.9
70°	315.5	337.5	561.4	609.0	359.6	253.2	282.5	264.2	245.8	249.5	245.8
72.5°	223.8	242.2	410.9	359.6	157.8	117.4	150.4	179.8	179.8	179.8	176.1
75°	135.8	154.1	238.5	139.4	62.4	62.4	95.4	121.1	128.4	132.1	124.7
77.5°	69.7	88.1	80.7	40.4	40.4	47.7	69.7	84.4	91.7	91.7	88.1
80°	14.7	14.7	14.7	22.0	40.4	51.4	69.7	77.0	88.1	88.1	80.7
82.5°	0.0	3.7	11.0	22.0	36.7	47.7	66.0	77.0	88.1	91.7	84.4
85°	0.0	3.7	7.3	14.7	25.7	29.4	25.7	22.0	22.0	22.0	22.0
87.5°	0.0	0.0	3.7	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3
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°	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0	5276.0
2.5°	5327.3	5338.3	5320.0	5316.3	5301.6	5345.7	5239.3	5213.6	5279.6	5217.3	5231.9
5°	5397.0	5422.7	5389.7	5334.7	5253.9	5129.2	5022.8	4883.4	4817.3	4769.6	4762.3
7.5°	5448.4	5466.7	5433.7	5257.6	5015.5	4699.9	4465.1	4292.7	4156.9	4116.6	4050.5
10°	5657.5	5661.2	5496.1	5107.2	4633.9	4219.3	3859.7	3595.6	3459.8	3375.4	3338.8
12.5°	5797.0	5789.6	5455.7	4810.0	4178.9	3628.6	3217.7	2898.5	2773.7	2733.4	2707.7
15°	5973.1	5932.7	5360.3	4505.5	3591.9	2997.5	2627.0	2406.8	2395.8	2370.1	2395.8
17.5°	6112.5	5998.7	5220.9	3951.5	3030.6	2469.2	2227.1	2241.7	2271.1	2296.8	2300.4
20°	6340.0	6105.1	4901.7	3467.2	2509.6	2117.0	2113.3	2179.4	2252.7	2282.1	2311.4
22.5°	6512.4	6149.2	4560.5	2949.8	2084.0	1973.9	2036.3	2135.3	2190.4	2219.7	2263.7
25°	6574.8	6028.1	4105.6	2432.5	1878.5	1907.9	2003.3	2069.3	2139.0	2172.0	2153.7
27.5°	6637.1	5965.7	3562.6	2003.3	1768.4	1863.8	1944.5	2010.6	2032.6	2076.6	2106.0
30°	6787.6	5749.3	3074.6	1731.7	1713.4	1834.5	1893.2	1915.2	1973.9	1999.6	1999.6
32.5°	6908.6	5664.9	2557.3	1603.3	1706.1	1849.2	1856.5	1856.5	1863.8	1845.5	1838.1
35°	7158.1	5375.0	2095.0	1526.3	1702.4	1852.8	1871.2	1808.8	1640.0	1574.0	1555.6
37.5°	7466.3	5187.9	1753.8	1507.9	1728.1	1896.9	1926.2	1691.4	1471.3	1364.9	1346.5
40°	7840.6	5055.8	1530.0	1500.6	1786.8	1999.6	1911.5	1599.7	1313.5	1159.4	1152.1
42.5°	8277.2	4934.7	1379.5	1496.9	1860.2	2106.0	1896.9	1522.6	1152.1	1049.3	1064.0
45°	8625.7	4868.7	1276.8	1471.3	1885.8	2168.4	1907.9	1386.9	1086.0	1020.0	1027.3
47.5°	8897.2	4729.3	1192.4	1427.2	1882.2	2190.4	1808.8	1331.8	1053.0	1071.3	1089.7
50°	8904.6	4542.2	1086.0	1331.8	1827.1	2150.0	1695.1	1280.5	1045.7	1122.7	1159.4
52.5°	8805.5	4278.0	972.3	1196.1	1698.7	2010.6	1592.3	1258.5	1012.6	1005.3	1049.3
55°	8453.3	3782.7	781.5	968.6	1434.6	1658.4	1500.6	1218.1	913.6	829.2	836.5
57.5°	6831.6	2711.4	576.0	693.4	1016.3	1214.4	1353.8	1199.7	821.8	704.4	708.1
60°	4230.3	1537.3	421.9	473.3	627.4	737.5	1097.0	1115.4	733.8	594.4	587.0
62.5°	2172.0	759.5	326.5	333.9	385.2	432.9	752.1	935.6	664.1	565.0	565.0
65°	726.5	374.2	286.2	256.8	256.8	267.8	455.0	649.4	561.4	473.3	473.3
67.5°	311.9	278.8	249.5	223.8	205.5	194.5	256.8	377.9	418.3	359.6	344.9
70°	242.2	234.8	216.5	187.1	161.4	146.8	150.4	194.5	238.5	231.1	223.8
72.5°	179.8	179.8	172.4	146.8	124.7	106.4	99.1	102.7	113.7	117.4	121.1
75°	124.7	128.4	128.4	113.7	91.7	77.0	66.0	55.0	44.0	36.7	33.0
77.5°	84.4	88.1	95.4	84.4	69.7	51.4	40.4	29.4	18.3	7.3	7.3
80°	73.4	84.4	91.7	84.4	73.4	55.0	40.4	22.0	11.0	0.0	0.0
82.5°	77.0	84.4	95.4	80.7	69.7	51.4	40.4	25.7	11.0	3.7	0.0
85°	18.3	18.3	22.0	25.7	33.0	36.7	29.4	18.3	11.0	3.7	0.0
87.5°	7.3	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	0.0	0.0
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)