

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: P652351

Luminaire Tested: **GALN-SA4B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12520.8 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

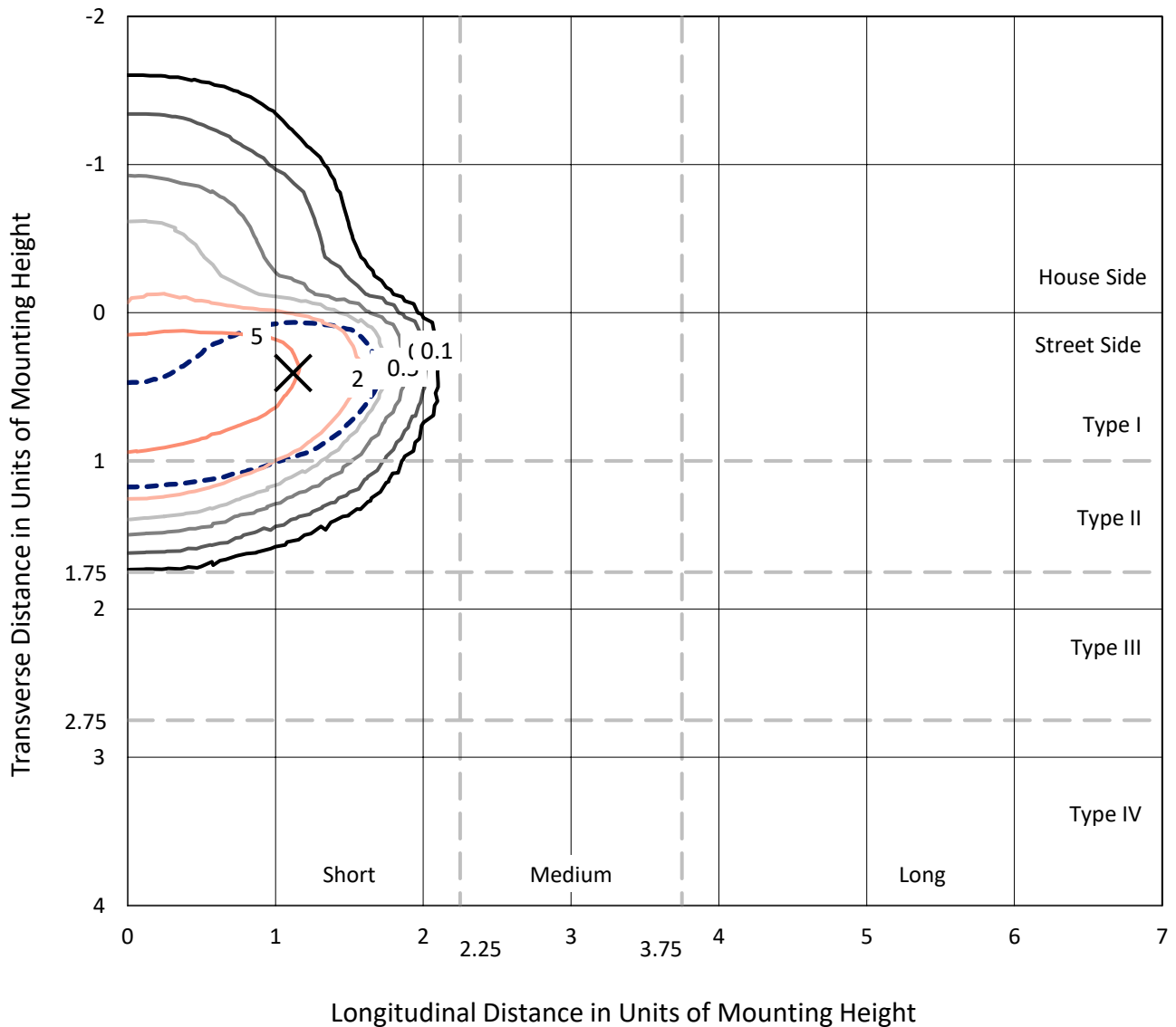
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

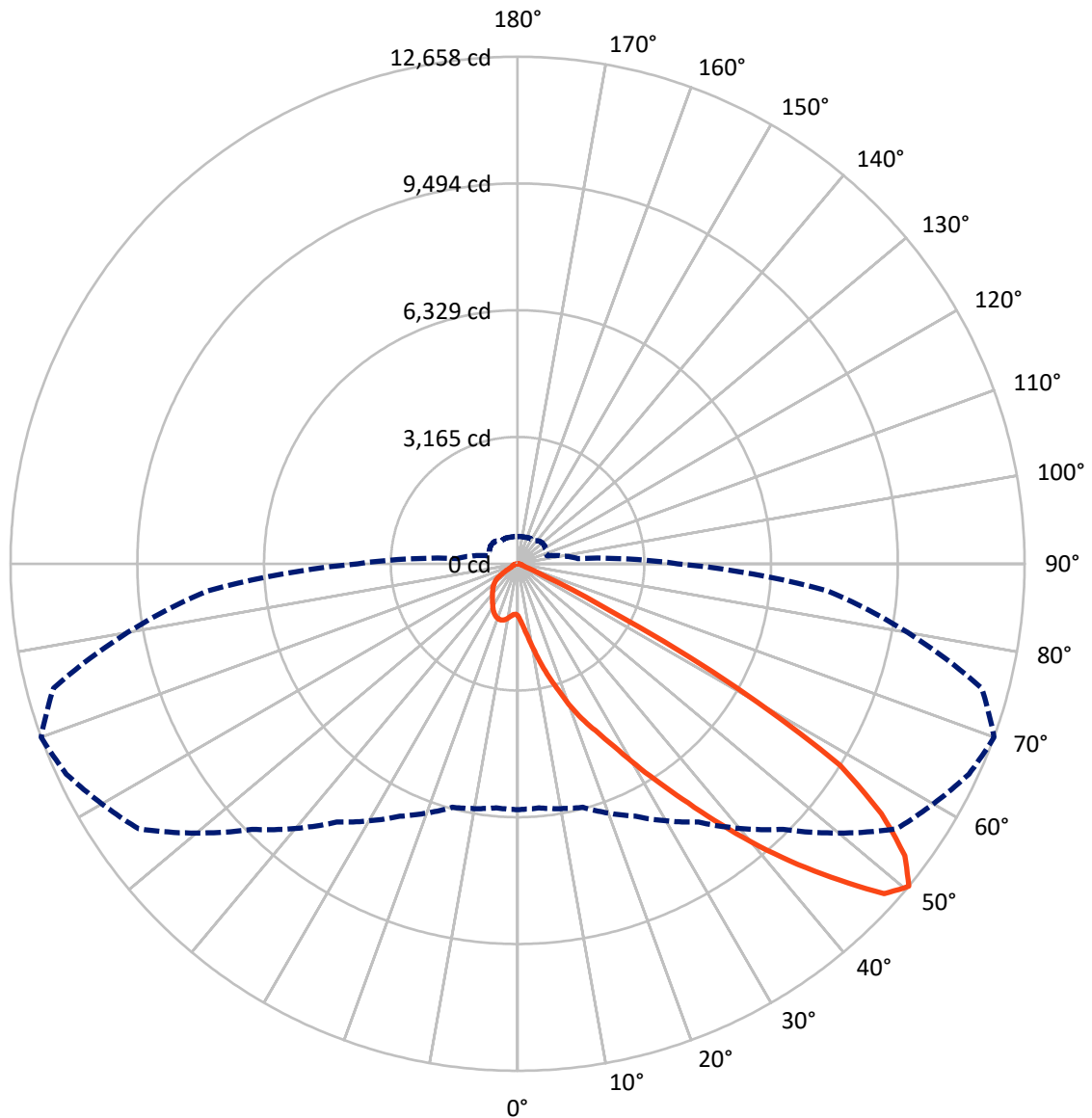
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1748.6	0.0	1748.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	10772.2	0.0	10772.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	12520.8	0.0	12520.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.6	1.3
10°-20°	729.5	5.8
20°-30°	1530.4	12.2
30°-40°	2637.8	21.1
40°-50°	3855.2	30.8
50°-60°	3002.6	24.0
60°-70°	508.7	4.1
70°-80°	69.9	0.6
80°-90°	18.1	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°	12520.8	100.0
0°-180°	12520.8	100.0

**Coefficient of Utilization**



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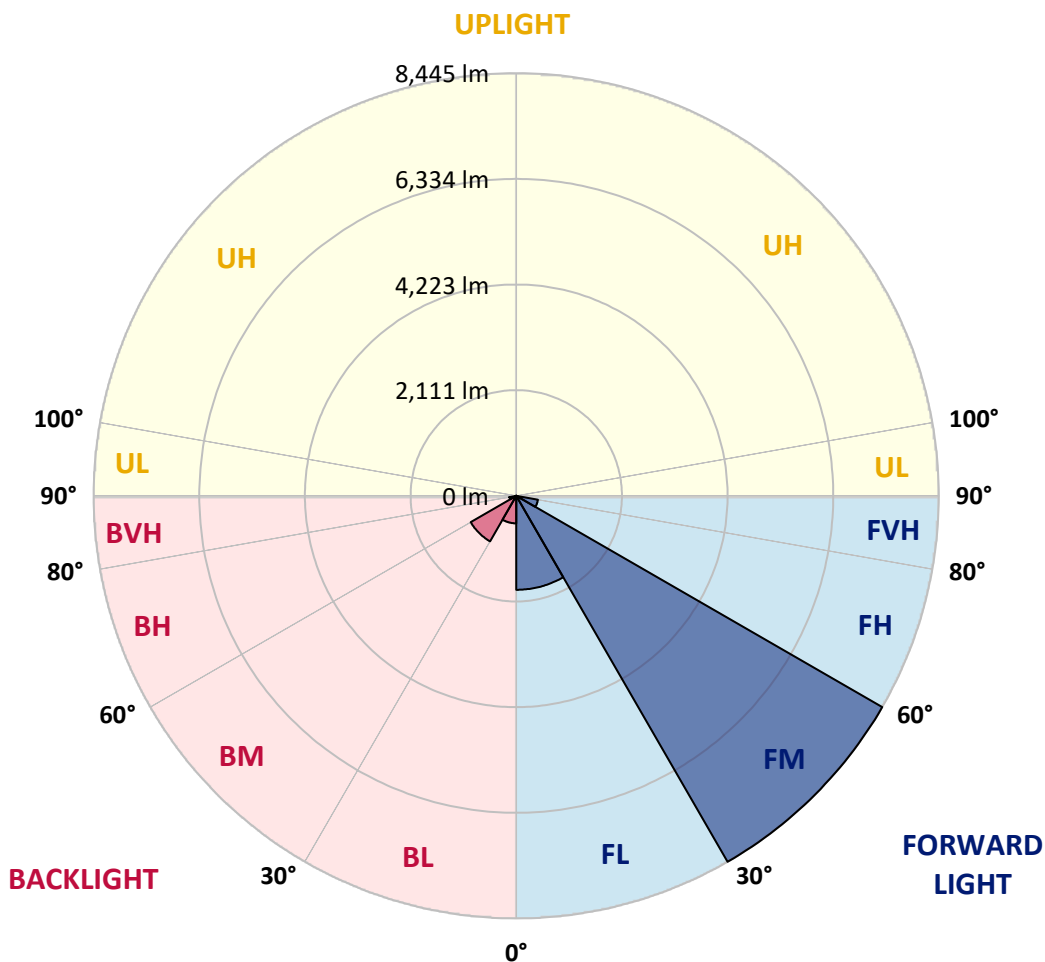
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.3	15.0			
FM (30°-60°)	8445.1	67.4			
FH (60°-80°)	440.5	3.5			G0/660
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	550.2	4.4	B2/1000		
BM (30°-60°)	1050.5	8.4	B2/2500		
BH (60°-80°)	138.1	1.1	B1/500		G1/500
BVH (80°-90°)	9.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1698.3	1686.0	1659.2	1609.8	1589.2	1539.8	1511.0	1455.4	1420.4	1381.3	1338.1
5°	2392.1	2328.2	2289.1	2233.5	2071.0	1970.0	1803.4	1661.3	1595.4	1523.4	1424.6
7.5°	3108.5	3067.3	3013.8	2894.4	2783.2	2573.2	2287.1	1974.2	1840.4	1716.9	1521.3
10°	3701.3	3586.0	3579.9	3491.3	3369.9	3118.8	2775.0	2385.9	2147.1	1965.9	1659.2
12.5°	4115.1	4010.1	4057.5	4047.1	3933.9	3703.4	3306.1	2791.4	2542.3	2260.4	1801.3
15°	4491.9	4448.6	4434.2	4421.8	4376.6	4205.7	3849.6	3285.5	2925.3	2585.6	1961.8
17.5°	4860.3	4749.1	4802.7	4813.0	4808.8	4654.4	4321.0	3754.9	3330.8	2929.4	2130.7
20°	5187.6	5198.0	5125.9	5111.4	5099.2	5092.9	4767.7	4220.1	3829.0	3289.7	2350.9
22.5°	5607.6	5535.5	5599.4	5558.2	5477.9	5428.5	5179.4	4631.8	4261.3	3723.9	2575.3
25°	6103.7	6161.3	6011.0	5994.6	5906.1	5735.2	5510.8	5092.9	4677.1	4127.5	2818.2
27.5°	6715.1	6614.2	6575.1	6484.5	6324.0	6251.9	5988.4	5568.5	5179.4	4551.5	3052.9
30°	7240.1	7213.3	7017.7	6910.7	6770.7	6768.6	6400.2	6212.8	5834.0	5216.5	3376.1
32.5°	7668.2	7550.9	7478.8	7404.8	7291.5	7322.4	7011.6	6912.8	6531.9	5834.0	3756.9
35°	7954.3	7870.0	7826.8	7713.5	7680.6	7818.5	7688.8	7647.6	7334.8	6702.8	4203.7
37.5°	8044.9	8071.7	8063.5	7921.5	7991.4	8364.0	8530.8	8423.7	8259.0	7618.8	4687.4
40°	8125.2	8143.7	8102.6	8269.3	8469.0	8893.1	9496.2	9319.2	9257.5	8547.3	5360.5
42.5°	8170.6	8156.1	8156.1	8444.3	8746.9	9599.2	10428.8	10311.4	10264.1	9535.3	6138.7
45°	7975.0	7835.0	7985.3	8376.4	8985.7	9947.1	11174.0	11336.6	11268.7	10710.8	7048.6
47.5°	7244.2	7330.7	7415.0	7937.9	8695.4	9840.0	11631.0	12184.7	12310.3	11699.0	7645.6
50°	6138.7	6120.2	6295.1	6953.9	7874.1	9378.9	11542.5	12429.7	12658.2	11995.4	7771.2
52.5°	4465.0	4600.9	4790.3	5445.0	6536.0	8184.9	10400.0	11797.7	12102.4	11631.0	7688.8
55°	2600.0	2449.7	2875.9	3429.6	4458.9	6173.7	8792.2	10457.6	11021.6	10968.2	7273.0
57.5°	1041.7	1008.7	1154.9	1556.3	2326.2	3826.9	6394.0	8592.5	9496.2	10045.9	6391.9
60°	457.0	446.7	525.0	634.0	951.1	1764.2	3497.6	5344.1	6286.9	7019.7	4399.2
62.5°	329.3	325.2	364.4	403.5	502.3	767.8	1469.8	2153.3	2684.4	3242.3	1970.0
65°	265.6	275.8	302.6	323.2	370.5	426.1	518.7	599.0	734.9	761.7	434.4
67.5°	216.1	224.4	249.1	271.7	280.0	230.6	238.8	210.0	210.0	187.3	150.3
70°	158.5	160.5	189.4	216.1	172.9	92.7	162.6	162.6	146.2	139.9	127.7
72.5°	117.3	119.4	142.0	133.8	68.0	57.6	119.4	131.8	119.4	113.2	102.9
75°	86.5	88.6	74.1	30.9	28.8	37.1	70.0	90.6	86.5	84.4	78.2
77.5°	16.5	12.4	10.3	14.4	20.6	30.9	45.3	55.6	57.6	61.7	57.6
80°	2.0	2.0	6.1	12.4	22.6	33.0	47.3	53.5	55.6	57.6	53.5
82.5°	0.0	2.0	6.1	12.4	22.6	30.9	41.2	47.3	51.5	53.5	51.5
85°	0.0	2.0	4.1	10.3	18.5	22.6	20.6	14.4	12.4	14.4	10.3
87.5°	0.0	0.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1313.4	1305.1	1276.3	1245.4	1218.7	1231.1	1218.7	1208.3	1212.5	1208.3	1204.3
5°	1385.5	1348.4	1286.6	1259.8	1237.2	1235.2	1229.0	1226.9	1229.0	1229.0	1210.5
7.5°	1453.3	1393.6	1327.8	1299.0	1272.2	1274.3	1259.8	1259.8	1257.8	1247.5	1243.4
10°	1556.3	1476.0	1391.6	1340.1	1307.2	1301.0	1286.6	1272.2	1272.2	1272.2	1251.7
12.5°	1669.6	1568.6	1453.3	1393.6	1354.5	1323.6	1301.0	1296.9	1274.3	1270.2	1259.8
15°	1768.3	1640.7	1494.5	1412.2	1362.8	1321.6	1286.6	1263.9	1253.7	1247.5	1239.3
17.5°	1865.1	1702.4	1517.2	1412.2	1358.6	1311.3	1274.3	1253.7	1229.0	1233.1	1216.6
20°	1994.8	1768.3	1523.4	1385.5	1319.5	1274.3	1224.8	1214.6	1200.2	1187.8	1191.9
22.5°	2120.3	1815.6	1504.8	1352.5	1257.8	1204.3	1179.6	1167.2	1161.0	1150.7	1136.4
25°	2233.5	1867.1	1476.0	1292.8	1191.9	1152.8	1130.1	1128.1	1113.7	1113.7	1086.9
27.5°	2348.8	1885.7	1426.6	1222.8	1134.3	1111.6	1101.4	1097.3	1091.0	1076.6	1058.1
30°	2480.6	1891.8	1354.5	1150.7	1082.8	1058.1	1072.5	1082.8	1056.0	1029.3	1037.5
32.5°	2589.7	1877.4	1268.1	1082.8	1045.8	1033.4	1062.3	1072.5	1041.7	1012.8	998.4
35°	2721.5	1842.5	1183.7	1029.3	1008.7	1033.4	1058.1	1058.1	996.3	961.3	953.1
37.5°	2921.1	1803.4	1105.5	984.0	969.6	1021.1	1054.0	1031.3	934.6	891.4	881.1
40°	3135.2	1778.6	1029.3	938.7	949.0	1000.5	1019.0	949.0	850.2	823.4	815.2
42.5°	3446.1	1729.2	961.3	899.6	930.5	971.7	971.7	846.0	809.0	794.6	792.6
45°	3833.1	1694.2	901.6	866.7	903.7	914.0	881.1	792.6	765.8	761.7	763.7
47.5°	4022.5	1626.2	839.9	827.5	854.3	856.4	769.9	749.3	726.7	720.5	716.4
50°	3993.7	1504.8	759.6	776.1	813.2	792.6	702.0	706.1	685.5	683.5	673.1
52.5°	3791.9	1313.4	679.4	718.5	759.6	699.9	646.4	642.3	642.3	615.5	605.2
55°	3361.6	1058.1	582.6	632.0	681.4	588.8	574.3	570.2	559.9	535.2	529.1
57.5°	2661.8	776.1	438.5	492.0	578.4	500.2	498.2	479.6	452.9	434.4	434.4
60°	1583.0	446.7	275.8	300.6	382.9	405.5	450.9	442.6	397.3	368.5	360.3
62.5°	722.6	230.6	175.0	179.1	205.9	263.5	354.1	409.7	345.8	296.5	292.3
65°	242.9	170.9	144.1	137.9	142.0	158.5	212.0	290.2	275.8	228.5	220.3
67.5°	148.2	152.3	135.9	125.6	125.6	123.5	121.4	131.8	162.6	158.5	160.5
70°	127.7	139.9	125.6	113.2	109.1	102.9	86.5	72.1	61.7	72.1	76.2
72.5°	102.9	111.2	107.1	96.7	86.5	78.2	61.7	47.3	35.0	30.9	30.9
75°	76.2	82.3	86.5	74.1	65.9	55.6	45.3	30.9	18.5	12.4	12.4
77.5°	55.6	61.7	63.8	57.6	49.4	39.1	28.8	20.6	10.3	4.1	4.1
80°	47.3	55.6	61.7	57.6	51.5	37.1	26.7	14.4	8.2	2.0	2.0
82.5°	45.3	55.6	61.7	55.6	49.4	35.0	26.7	16.5	6.1	2.0	2.0
85°	10.3	14.4	18.5	22.6	26.7	26.7	20.6	12.4	6.1	2.0	2.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	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)