

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: P458705

Luminaire Tested: **GALN-SA2C-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13245 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

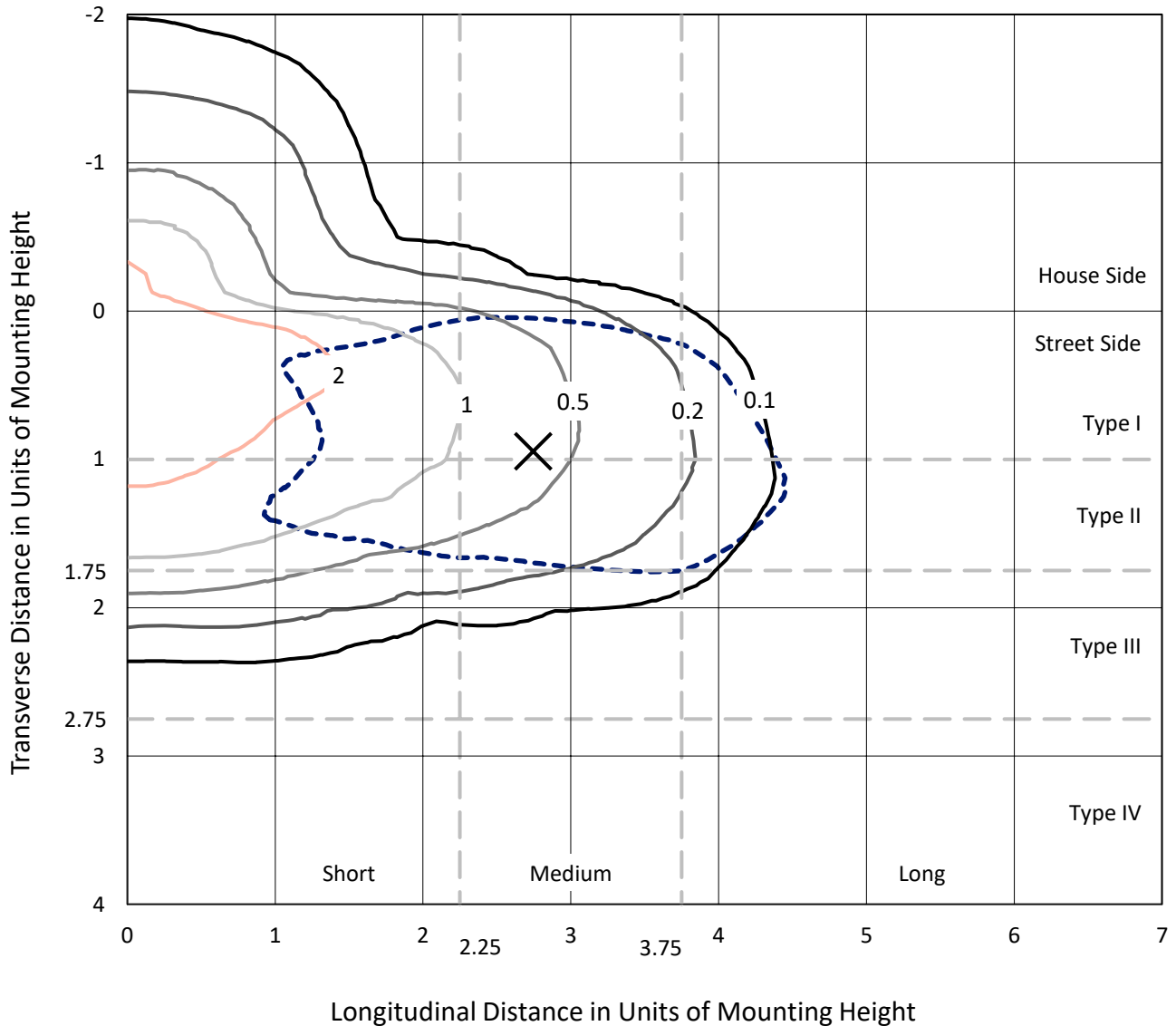
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

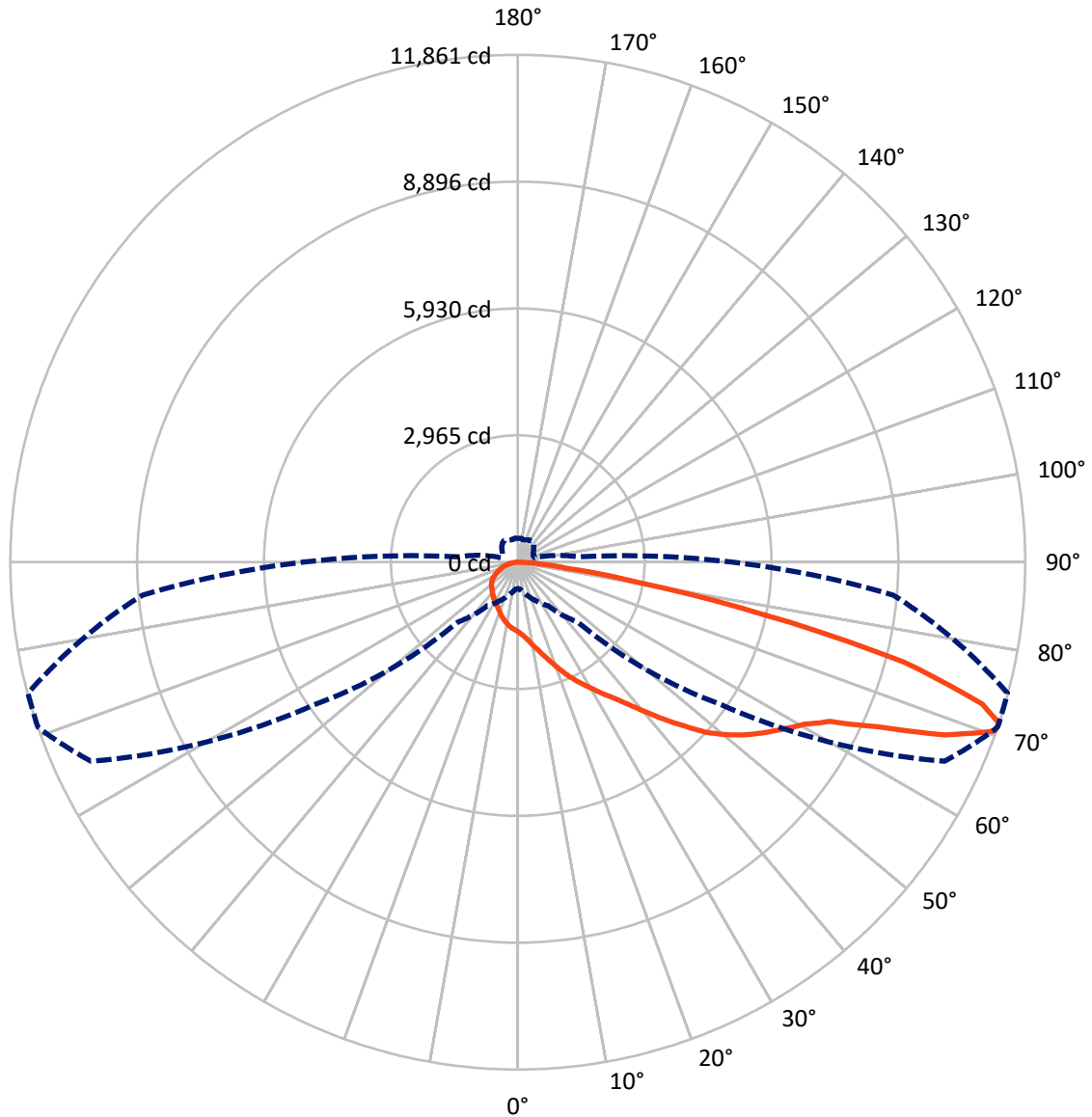
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2382.1	0.0	2382.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10862.9	0.0	10862.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	13245.0	0.0	13245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	1.2
10°-20°	530.3	4.0
20°-30°	926.7	7.0
30°-40°	1378.4	10.4
40°-50°	2030.8	15.3
50°-60°	2843.2	21.5
60°-70°	3180.0	24.0
70°-80°	1942.5	14.7
80°-90°	249.9	1.9
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°	13245.0	100.0
0°-180°	13245.0	100.0

Coefficient of Utilization



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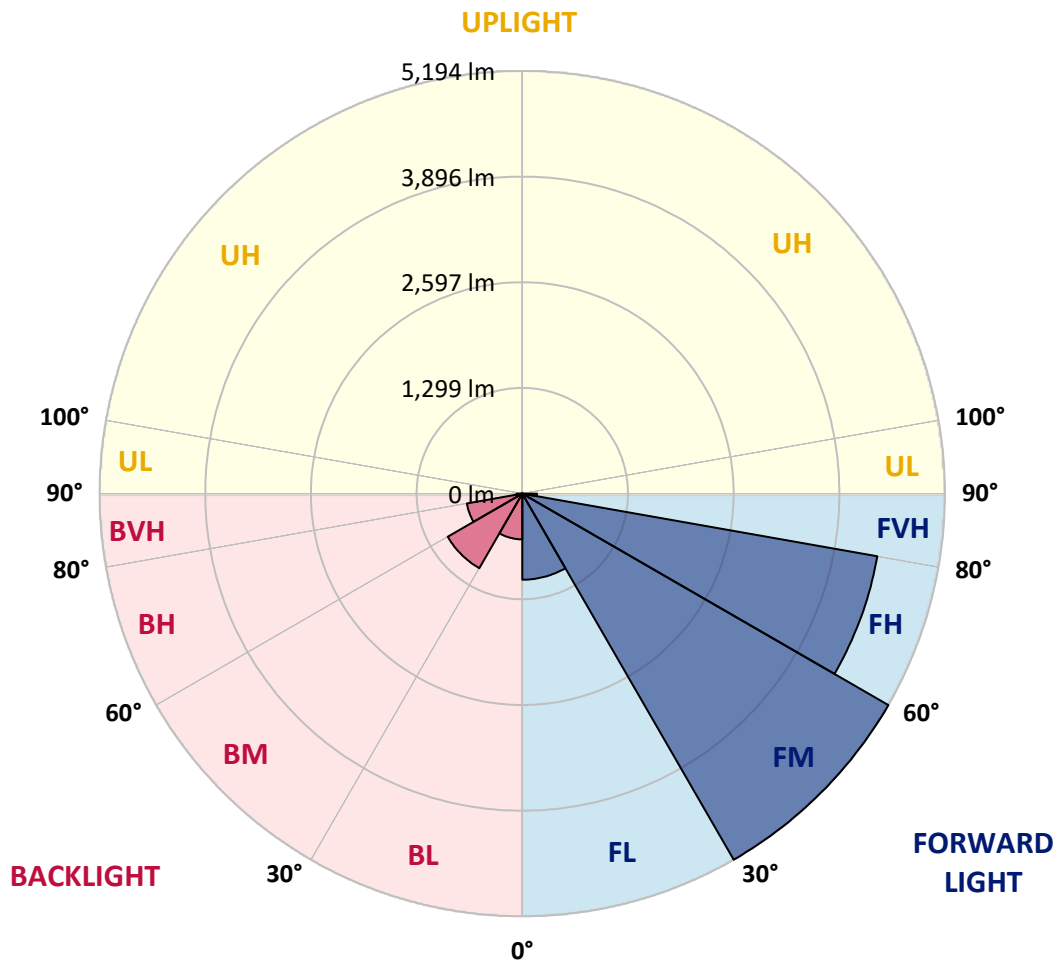
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1058.3	8.0			
FM	(30°-60°)	5194.4	39.2			
FH	(60°-80°)	4430.4	33.4			G2/5000
FVH	(80°-90°)	179.8	1.4			G2/225
BL	(0°-30°)	561.9	4.2	B2/1000		
BM	(30°-60°)	1058.0	8.0	B2/2500		
BH	(60°-80°)	692.1	5.2	B2/1000		G2/1000
BVH	(80°-90°)	70.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1804.6	1795.9	1796.6	1784.3	1768.2	1750.8	1726.0	1704.2	1686.7	1676.5	1646.7
5°	1999.7	1991.0	1980.1	1953.2	1941.5	1898.6	1844.0	1794.5	1756.6	1735.5	1675.8
7.5°	2157.7	2155.5	2152.6	2137.3	2107.5	2047.8	2001.2	1915.3	1859.2	1819.2	1717.3
10°	2255.3	2258.9	2261.1	2264.0	2251.6	2220.3	2156.3	2047.8	1976.4	1925.5	1771.2
12.5°	2304.8	2308.4	2320.8	2347.7	2364.5	2360.8	2308.4	2202.1	2103.8	2036.9	1828.7
15°	2335.3	2341.2	2363.0	2398.7	2454.7	2490.4	2464.9	2366.6	2258.9	2179.5	1897.1
17.5°	2368.8	2375.4	2399.4	2450.4	2523.9	2601.0	2628.7	2544.3	2427.1	2332.4	1973.5
20°	2387.7	2396.5	2430.7	2497.7	2583.6	2695.7	2787.4	2743.0	2614.9	2510.0	2061.6
22.5°	2418.3	2425.6	2454.7	2526.1	2628.7	2769.2	2946.1	2936.6	2823.8	2688.4	2158.4
25°	2501.3	2513.0	2527.5	2570.5	2669.5	2844.2	3077.9	3143.4	3026.2	2874.8	2247.3
27.5°	2657.8	2667.3	2666.6	2672.4	2728.4	2909.0	3192.2	3347.9	3227.1	3063.3	2333.2
30°	2836.2	2839.8	2842.7	2829.6	2842.0	2975.2	3297.0	3550.3	3429.5	3256.9	2408.1
32.5°	3053.1	3060.4	3035.6	3002.2	2992.0	3073.5	3383.6	3752.7	3669.0	3453.5	2482.4
35°	3309.4	3328.3	3278.1	3219.1	3177.6	3214.7	3500.1	3959.4	3914.3	3704.7	2580.7
37.5°	3602.0	3625.3	3578.7	3463.0	3404.0	3414.2	3652.2	4215.0	4224.4	3990.7	2727.0
40°	3841.5	3872.1	3873.5	3709.7	3620.2	3631.9	3845.2	4490.1	4598.6	4344.5	2899.5
42.5°	3999.5	4029.3	4060.6	3964.5	3870.6	3936.9	4070.1	4788.6	5019.4	4774.0	3140.5
45°	4172.7	4199.7	4217.1	4173.5	4121.1	4292.9	4341.6	5106.0	5467.8	5253.8	3404.0
47.5°	4373.7	4403.5	4420.2	4378.8	4359.1	4605.2	4634.3	5402.3	5946.8	5719.7	3695.2
50°	4641.6	4664.1	4655.4	4629.2	4624.8	4844.7	4915.3	5679.6	6342.1	6221.3	3997.3
52.5°	4975.0	5001.9	5011.4	4974.2	4957.5	5015.7	5141.7	5932.2	6701.7	6652.2	4319.8
55°	5176.6	5219.6	5363.7	5421.9	5462.0	5237.0	5385.5	6211.1	7024.2	7106.5	4666.3
57.5°	4918.2	4973.5	5296.0	5587.2	5963.6	5790.3	5731.3	6502.2	7346.7	7546.9	5081.2
60°	4287.8	4300.1	4715.8	5252.3	6009.4	6501.5	6452.7	6965.2	7696.1	7991.0	5628.0
62.5°	2974.5	3000.7	3492.1	4348.2	5443.1	6757.8	7680.1	7764.6	8197.0	8655.6	6429.5
65°	1533.8	1499.6	1947.3	2732.8	4103.6	6149.2	8674.5	9234.3	9283.1	9695.1	7557.8
67.5°	944.2	959.5	1169.1	1595.7	2426.3	4469.0	8570.4	11030.2	10773.3	10971.3	8605.4
70°	709.0	728.0	872.1	1092.0	1479.2	2555.2	6892.4	11465.6	11824.5	11773.5	8924.2
71°	616.6	636.2	786.2	993.7	1242.6	1972.1	5807.0	11009.9	11860.9	11852.1	8804.1
72.5°	525.6	538.0	655.2	841.5	1047.6	1382.4	4362.7	9874.2	11354.9	11645.4	8375.3
75°	412.8	422.2	474.6	642.1	824.8	848.8	2341.2	7402.8	9326.1	9879.3	6972.5
77.5°	336.3	342.9	369.8	476.8	636.2	601.3	1228.1	4818.4	5842.7	6399.6	4107.2
80°	267.2	274.4	290.5	323.2	476.8	428.8	586.0	2441.6	2822.3	2816.5	1639.4
82.5°	207.5	209.7	228.6	237.3	326.1	304.3	317.4	1033.7	1145.1	1183.0	591.8
85°	131.0	137.6	202.4	182.0	195.1	178.4	156.5	410.6	505.9	498.7	236.6
87.5°	40.0	42.2	68.4	77.2	86.6	77.9	57.5	120.8	147.8	160.2	59.0
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°	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6	1625.6
2.5°	1635.0	1627.0	1598.6	1575.3	1553.5	1529.5	1509.1	1503.3	1498.2	1496.0	1495.3
5°	1650.3	1626.3	1570.2	1524.4	1488.0	1454.5	1433.4	1423.9	1414.5	1414.5	1417.4
7.5°	1672.2	1628.5	1541.8	1473.4	1427.6	1396.3	1381.0	1379.5	1381.7	1383.9	1384.6
10°	1696.2	1627.0	1500.4	1415.2	1374.4	1359.9	1360.6	1373.0	1384.6	1393.3	1394.8
12.5°	1719.5	1618.3	1451.6	1360.6	1334.4	1337.3	1357.7	1385.3	1407.9	1420.3	1421.0
15°	1745.7	1604.5	1392.6	1308.9	1300.2	1322.7	1360.6	1402.8	1437.0	1457.4	1459.6
17.5°	1767.5	1581.2	1330.7	1258.7	1269.6	1311.1	1363.5	1418.1	1459.6	1485.1	1489.4
20°	1792.3	1551.3	1266.7	1210.6	1241.9	1298.0	1357.7	1416.6	1459.6	1484.3	1490.2
22.5°	1811.9	1509.1	1205.5	1171.3	1217.2	1282.0	1338.0	1385.3	1420.3	1433.4	1442.1
25°	1819.9	1455.9	1148.0	1139.3	1197.5	1255.8	1293.6	1320.5	1331.5	1330.0	1333.6
27.5°	1815.6	1394.8	1098.5	1113.8	1172.8	1215.0	1233.9	1231.7	1212.1	1193.9	1202.6
30°	1797.4	1322.0	1057.0	1087.6	1140.7	1164.0	1161.1	1132.7	1095.6	1061.4	1063.6
32.5°	1764.6	1243.4	1018.4	1057.7	1095.6	1105.8	1086.1	1049.0	995.9	951.5	944.9
35°	1736.9	1168.4	984.2	1023.5	1050.5	1045.4	1026.4	978.4	930.3	891.0	884.5
37.5°	1732.6	1104.3	951.5	984.9	1000.2	993.0	969.7	928.9	911.4	881.6	877.9
40°	1755.9	1059.2	918.0	944.2	951.5	945.6	920.2	896.9	912.9	905.6	905.6
42.5°	1819.2	1035.2	888.1	903.4	909.2	913.6	895.4	875.8	895.4	861.9	851.0
45°	1919.7	1035.9	861.2	863.4	880.8	896.1	883.8	854.6	844.4	777.5	764.4
47.5°	2067.4	1060.7	839.4	825.5	856.8	882.3	864.8	822.6	777.5	733.1	725.1
50°	2240.0	1105.1	819.7	786.2	824.8	864.8	851.7	802.2	755.6	728.7	723.6
52.5°	2431.4	1161.1	795.7	742.5	785.5	856.8	854.6	799.3	735.3	717.1	712.7
55°	2668.0	1216.4	765.8	691.6	750.5	850.3	846.6	775.3	730.9	717.8	716.3
57.5°	2943.2	1296.5	722.9	639.9	710.5	823.3	815.3	760.7	716.3	706.9	706.1
60°	3386.5	1421.0	661.7	592.6	669.7	776.0	786.2	736.0	693.0	690.8	690.1
62.5°	3969.6	1595.7	598.4	543.8	622.4	714.9	744.0	702.5	668.3	679.2	680.7
65°	4774.8	1742.8	532.9	502.3	570.0	655.9	703.9	671.2	640.6	661.7	661.7
67.5°	5299.6	1745.7	473.2	459.4	516.9	606.4	661.7	634.1	604.9	640.6	642.1
70°	5190.4	1529.5	423.7	414.2	465.2	553.3	615.1	593.3	559.8	591.8	580.2
71°	5014.3	1409.4	404.0	396.7	444.8	527.8	593.3	575.1	541.6	562.7	556.2
72.5°	4733.3	1223.7	372.0	373.4	414.2	495.7	562.7	543.8	510.3	522.0	519.8
75°	4000.9	1068.7	318.1	324.7	356.0	441.2	501.6	487.0	452.8	452.8	450.6
77.5°	2501.3	746.9	264.3	267.9	302.1	377.8	431.0	418.6	385.8	374.9	372.0
80°	933.3	385.8	206.7	211.1	232.2	297.7	356.7	345.1	311.6	299.2	287.5
82.5°	353.1	193.6	152.1	148.5	171.1	227.1	279.5	265.7	239.5	209.7	200.9
85°	133.2	96.1	93.2	90.3	100.5	134.7	173.3	170.3	142.7	121.6	119.4
87.5°	34.9	31.3	36.4	26.9	28.4	25.5	26.2	10.9	5.1	2.2	1.5
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)