

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: P529268

Luminaire Tested: **GALN-SA4B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16140 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - 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

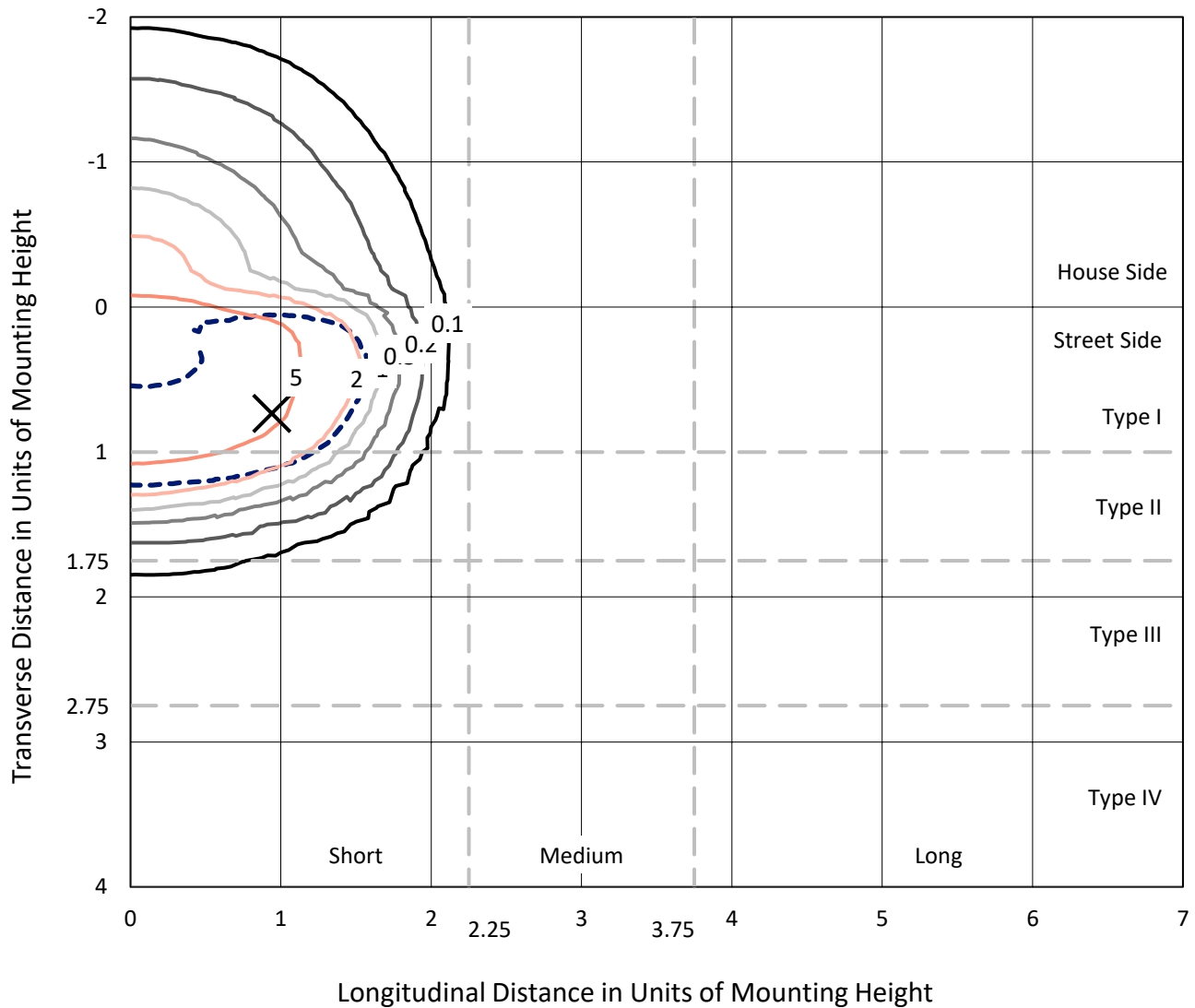


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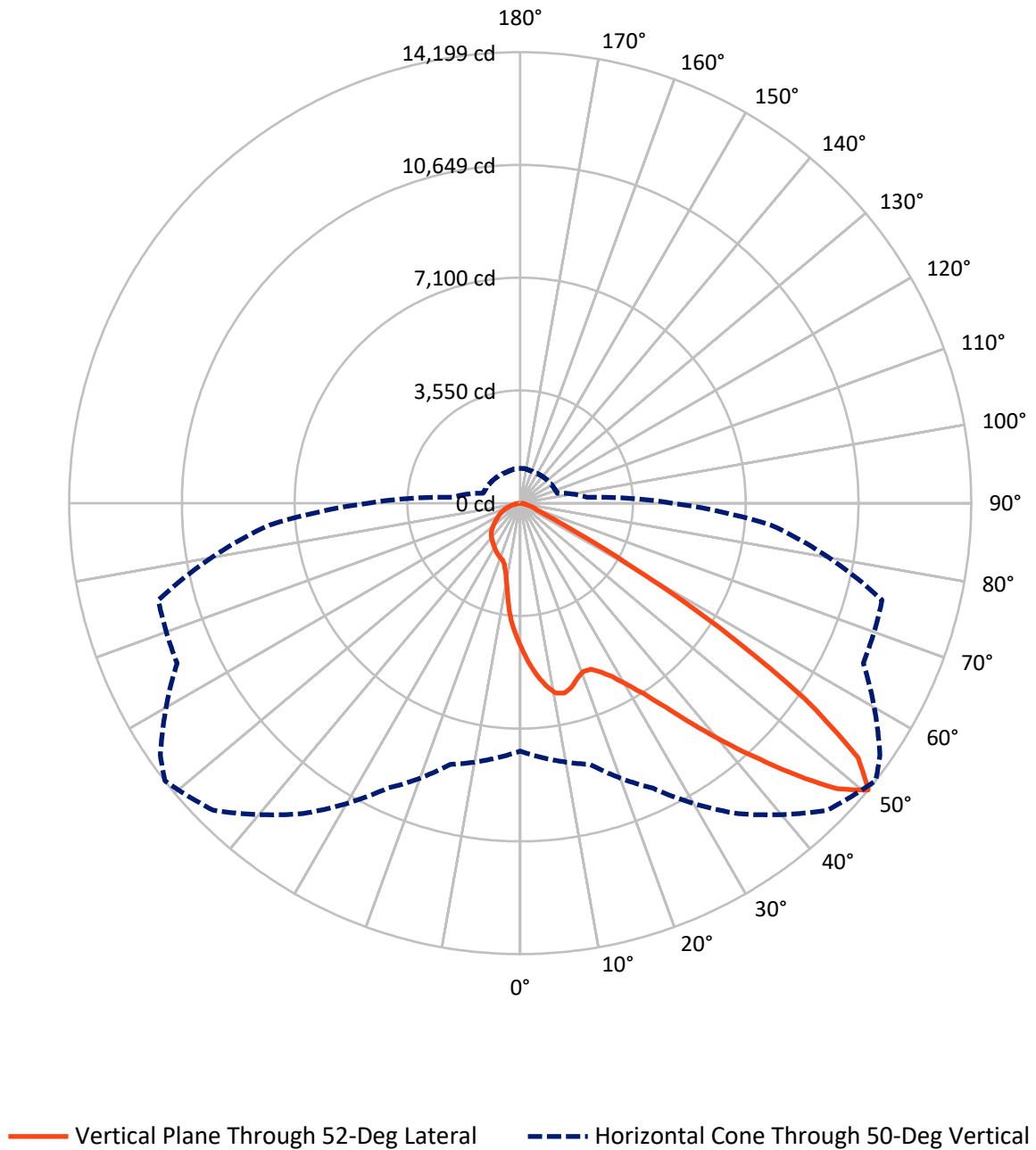
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3033.9	0.0	3033.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13106.1	0.0	13106.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	16140.0	0.0	16140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.3	2.6
10°-20°	1123.9	7.0
20°-30°	1893.2	11.7
30°-40°	3177.0	19.7
40°-50°	4860.0	30.1
50°-60°	3543.3	22.0
60°-70°	788.6	4.9
70°-80°	284.4	1.8
80°-90°	50.3	0.3
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°	16140.0	100.0
0°-180°	16140.0	100.0

Coefficient of Utilization



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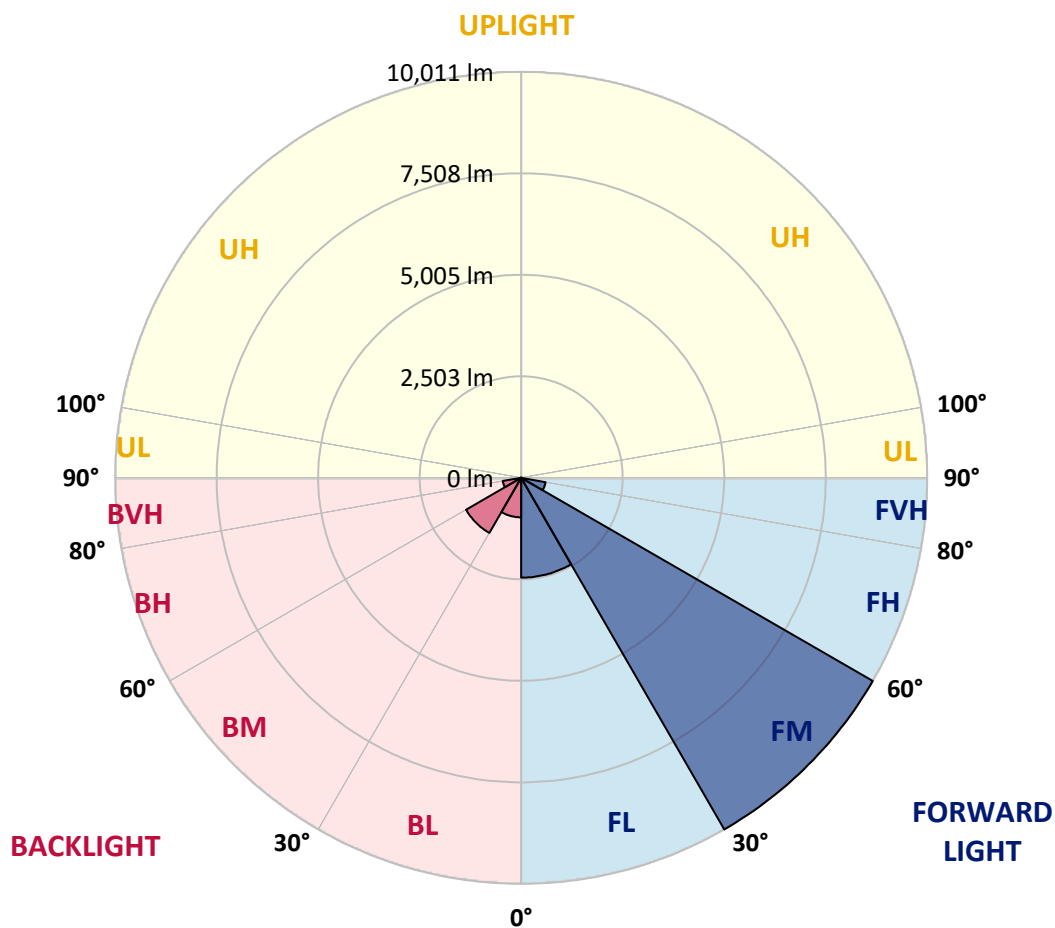
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2461.9	15.3			
FM	(30°-60°)	10010.8	62.0			
FH	(60°-80°)	610.7	3.8			G0/660
FVH	(80°-90°)	22.6	0.1			G1/100
BL	(0°-30°)	974.6	6.0	B2/1000		
BM	(30°-60°)	1569.4	9.7	B2/2500		
BH	(60°-80°)	462.2	2.9	B1/500		G1/500
BVH	(80°-90°)	27.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6
2.5°	5356.8	5253.7	5265.4	5191.5	5111.7	5088.4	5006.7	4928.9	4870.5	4746.1	4631.3
5°	5854.8	5823.6	5777.0	5718.6	5658.3	5510.5	5426.8	5329.6	5115.6	4923.1	4732.4
7.5°	5926.7	5920.9	5946.2	5946.2	5967.6	5911.2	5792.5	5724.4	5496.9	5183.7	4829.7
10°	5421.0	5438.5	5561.1	5720.6	5942.3	6096.0	6076.5	6059.0	5810.0	5382.1	4944.5
12.5°	5018.4	4979.5	5051.4	5187.6	5520.2	5891.7	6142.6	6144.6	6080.4	5699.2	5028.1
15°	4790.8	4818.0	4837.5	4901.7	5152.6	5582.4	6024.0	6154.3	6436.3	5922.8	5160.4
17.5°	4936.7	4845.3	4841.4	4856.9	4985.3	5308.2	5804.2	6027.9	6630.9	6210.7	5323.7
20°	5127.3	5125.3	5070.9	5051.4	5049.5	5337.4	5660.3	5963.7	6734.0	6584.2	5489.1
22.5°	5461.9	5461.9	5372.4	5329.6	5238.2	5473.5	5679.7	5885.9	6905.1	6840.9	5568.8
25°	6022.0	5930.6	5777.0	5671.9	5619.4	5703.0	5885.9	6070.7	7054.9	7113.2	5734.2
27.5°	6539.4	6395.5	6319.6	6138.7	6068.7	6020.1	6187.4	6374.1	7230.0	7537.3	5823.6
30°	7126.9	7101.6	6965.4	6732.0	6558.9	6469.4	6623.1	6807.9	7550.9	7971.0	6029.8
32.5°	8177.2	7947.7	7762.9	7477.0	7194.9	7004.3	7156.0	7278.6	8083.9	8424.2	6255.5
35°	9311.2	9237.3	8918.3	8402.8	7971.0	7799.9	7889.3	7980.8	8704.3	9116.7	6634.7
37.5°	10425.8	10324.6	10062.0	9628.3	9103.1	8754.9	8819.1	8926.1	9400.7	10050.4	7097.7
40°	11227.1	11102.7	10970.4	10906.2	10384.9	9908.4	9871.4	9898.6	10342.1	10925.6	7611.2
42.5°	11285.5	11439.2	11480.0	11738.7	11616.2	11225.2	10997.6	11003.5	11240.8	11791.2	8130.5
45°	11163.0	11021.0	11322.5	12028.5	12433.1	12615.9	12232.8	12184.1	11797.1	12293.1	8389.2
47.5°	9877.2	9916.1	10425.8	11542.2	12711.3	13528.2	13438.7	13277.3	12094.7	12275.6	8348.4
50°	7807.6	8043.0	8515.7	9906.4	11933.2	13672.1	14199.3	13825.8	11917.7	11793.2	7932.1
52.5°	5199.3	5296.5	5607.7	7403.1	9595.2	12221.1	13324.0	13409.5	11754.3	11161.0	7405.0
55°	2314.7	2306.9	2744.5	3866.9	6020.1	9299.5	10886.7	11408.0	11126.0	10517.2	6891.5
57.5°	980.3	1013.4	1192.3	1670.8	2960.4	5611.6	7375.8	7832.9	8556.5	8636.3	5286.8
60°	663.3	667.2	715.8	836.4	1239.0	2635.6	3868.8	4417.3	4934.7	4899.7	2804.8
62.5°	521.3	534.9	571.9	620.5	735.2	1196.2	1731.1	2036.5	2069.6	1740.9	1064.0
65°	445.4	447.4	484.3	525.2	575.8	696.3	834.4	850.0	859.7	828.6	781.9
67.5°	367.6	371.5	400.7	447.4	494.1	533.0	571.9	591.3	636.0	723.6	711.9
70°	291.8	297.6	322.9	361.8	404.6	427.9	476.6	494.1	534.9	603.0	630.2
72.5°	221.7	223.7	245.1	272.3	311.2	334.6	375.4	394.9	422.1	480.4	505.7
75°	159.5	165.3	180.9	194.5	200.3	215.9	254.8	276.2	315.1	340.4	342.3
77.5°	83.6	87.5	91.4	91.4	110.9	140.0	165.3	177.0	204.2	223.7	214.0
80°	33.1	35.0	44.7	60.3	77.8	101.1	118.7	124.5	147.8	159.5	165.3
82.5°	19.5	21.4	29.2	42.8	56.4	72.0	85.6	91.4	107.0	120.6	124.5
85°	9.7	11.7	17.5	27.2	37.0	44.7	42.8	40.8	40.8	38.9	40.8
87.5°	3.9	3.9	5.8	5.8	5.8	7.8	9.7	9.7	9.7	11.7	11.7
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°	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6	4549.6
2.5°	4555.4	4477.6	4405.7	4273.4	4129.5	4088.6	3921.3	3861.0	3818.2	3767.7	3752.1
5°	4578.8	4475.7	4244.2	3977.7	3765.7	3493.4	3314.5	3121.9	2981.8	2946.8	2937.1
7.5°	4627.4	4450.4	4051.7	3649.0	3215.3	2845.7	2563.6	2411.9	2277.7	2269.9	2256.3
10°	4681.9	4374.5	3841.6	3209.4	2655.1	2312.7	2143.5	2077.4	2044.3	2036.5	2032.6
12.5°	4726.6	4359.0	3606.2	2781.5	2258.3	2052.1	2001.5	1995.7	2009.3	2013.2	2021.0
15°	4746.1	4296.7	3322.2	2398.3	2011.2	1935.4	1956.8	1980.1	1989.8	2015.1	1995.7
17.5°	4783.0	4217.0	2972.1	2094.9	1873.1	1886.8	1923.7	1950.9	1966.5	1984.0	1958.7
20°	4802.5	4145.0	2643.4	1914.0	1824.5	1849.8	1900.4	1921.8	1941.2	1949.0	1919.8
22.5°	4785.0	3997.2	2353.6	1768.1	1777.8	1810.9	1855.6	1879.0	1867.3	1836.2	1818.7
25°	4738.3	3789.1	2052.1	1674.7	1711.7	1770.0	1805.1	1787.6	1766.2	1748.6	1742.8
27.5°	4736.3	3534.3	1834.2	1589.2	1655.3	1735.0	1723.4	1707.8	1717.5	1703.9	1688.4
30°	4746.1	3287.2	1655.3	1540.5	1614.4	1653.3	1667.0	1651.4	1663.1	1637.8	1645.6
32.5°	4695.5	3046.0	1538.6	1484.1	1565.8	1563.9	1608.6	1620.3	1593.0	1540.5	1548.3
35°	4716.9	2851.5	1439.4	1458.8	1511.3	1511.3	1546.4	1532.7	1460.8	1429.7	1437.4
37.5°	4864.7	2660.9	1390.7	1423.8	1458.8	1474.4	1462.7	1404.4	1386.9	1386.9	1390.7
40°	5004.8	2497.5	1361.6	1416.0	1410.2	1419.9	1334.3	1340.2	1340.2	1342.1	1332.4
42.5°	5129.2	2386.6	1338.2	1369.4	1379.1	1328.5	1276.0	1270.2	1283.8	1281.8	1274.0
45°	5174.0	2295.2	1305.2	1316.8	1324.6	1241.0	1215.7	1204.0	1219.6	1225.4	1233.2
47.5°	5002.8	2219.4	1268.2	1244.9	1229.3	1174.8	1141.8	1120.4	1139.8	1172.9	1180.7
50°	4783.0	2120.2	1209.9	1165.1	1132.1	1108.7	1085.4	1064.0	1077.6	1100.9	1095.1
52.5°	4458.2	1964.6	1135.9	1089.3	1032.9	1038.7	1017.3	1005.6	1013.4	1013.4	1007.6
55°	3995.2	1614.4	1011.5	978.4	931.7	947.3	951.2	935.6	920.0	933.6	922.0
57.5°	2727.0	1139.8	902.5	902.5	855.8	877.2	875.3	838.3	801.4	805.3	797.5
60°	1577.5	908.4	832.5	824.7	776.1	793.6	797.5	772.2	715.8	719.7	711.9
62.5°	896.7	776.1	727.5	715.8	706.1	721.6	721.6	688.6	639.9	643.8	636.0
65°	762.5	719.7	649.7	647.7	643.8	647.7	632.2	597.1	554.4	536.8	538.8
67.5°	692.5	665.2	597.1	579.6	568.0	566.0	536.8	503.8	484.3	468.8	466.8
70°	606.9	585.5	534.9	511.6	499.9	472.7	443.5	422.1	394.9	387.1	394.9
72.5°	480.4	478.5	459.0	433.8	408.5	387.1	361.8	332.6	307.3	301.5	287.9
75°	332.6	336.5	340.4	336.5	315.1	287.9	258.7	235.4	204.2	186.7	182.8
77.5°	217.9	223.7	229.5	221.7	208.1	182.8	163.4	134.2	110.9	97.3	95.3
80°	159.5	167.3	171.2	165.3	149.8	130.3	108.9	85.6	68.1	56.4	56.4
82.5°	122.5	130.3	134.2	124.5	108.9	93.4	77.8	60.3	46.7	37.0	35.0
85°	42.8	40.8	48.6	50.6	60.3	56.4	46.7	35.0	27.2	19.5	17.5
87.5°	11.7	11.7	13.6	13.6	11.7	9.7	9.7	9.7	7.8	5.8	5.8
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)