

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: P529749

Luminaire Tested: **GALN-SA4D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529749
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-SA4D-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 16084 lumens
Efficiency: N/A
Efficacy: 65.6 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): 245
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



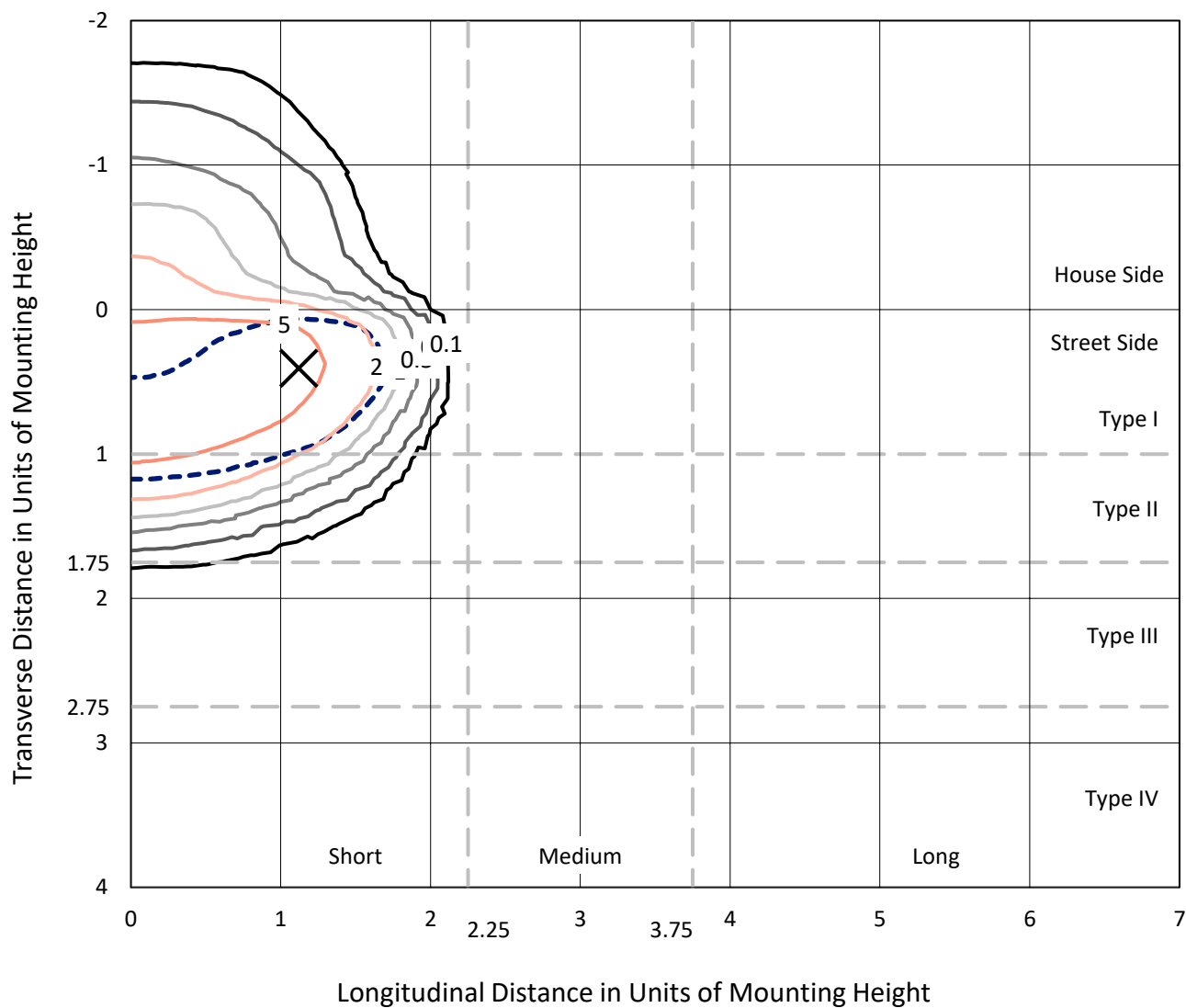
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

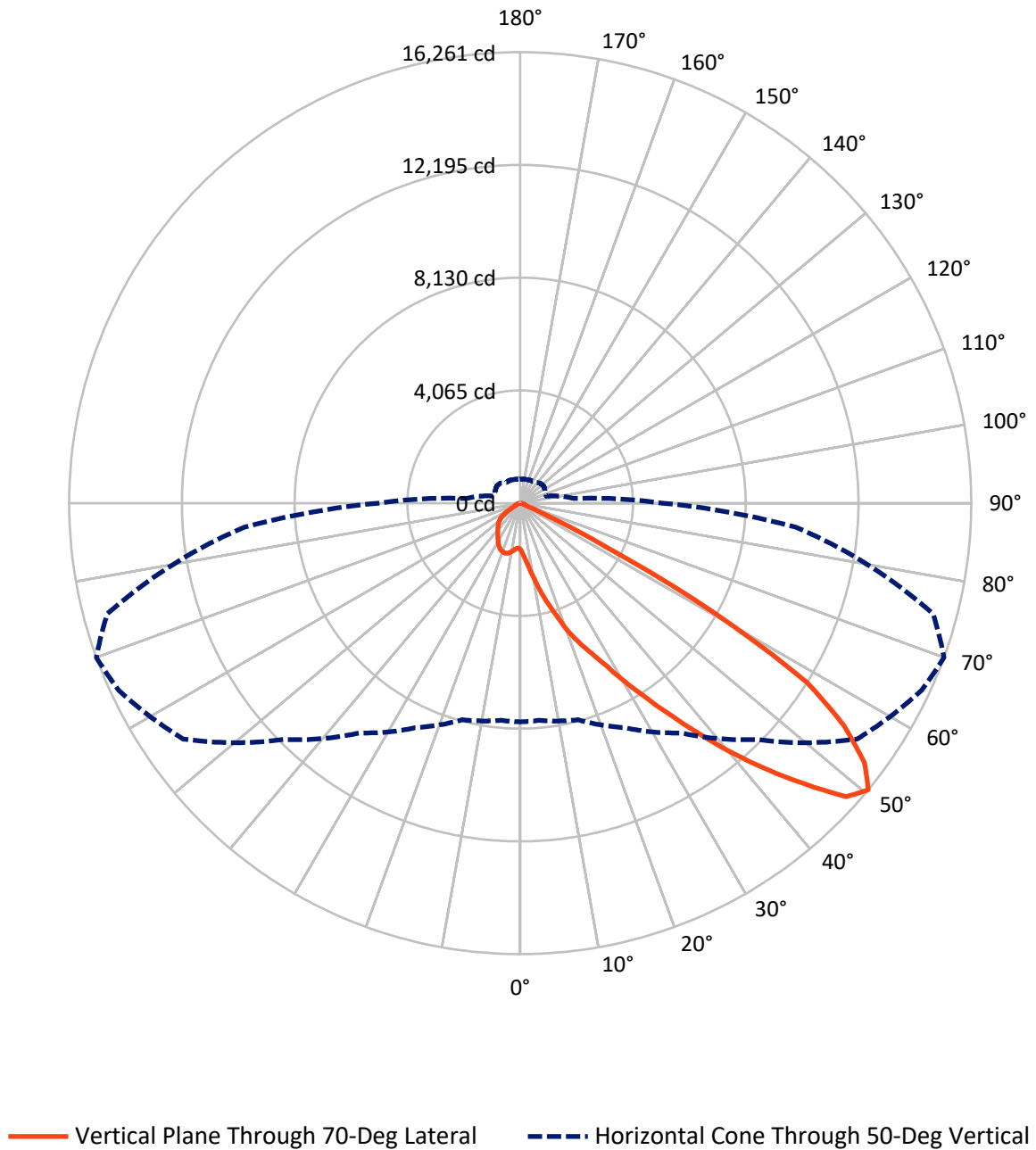


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2246.2	0.0	2246.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13837.8	0.0	13837.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	16084.0	0.0	16084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	1.3
10°-20°	937.1	5.8
20°-30°	1965.9	12.2
30°-40°	3388.5	21.1
40°-50°	4952.3	30.8
50°-60°	3857.0	24.0
60°-70°	653.5	4.1
70°-80°	89.8	0.6
80°-90°	23.3	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°	16084.0	100.0
0°-180°	16084.0	100.0

Coefficient of Utilization



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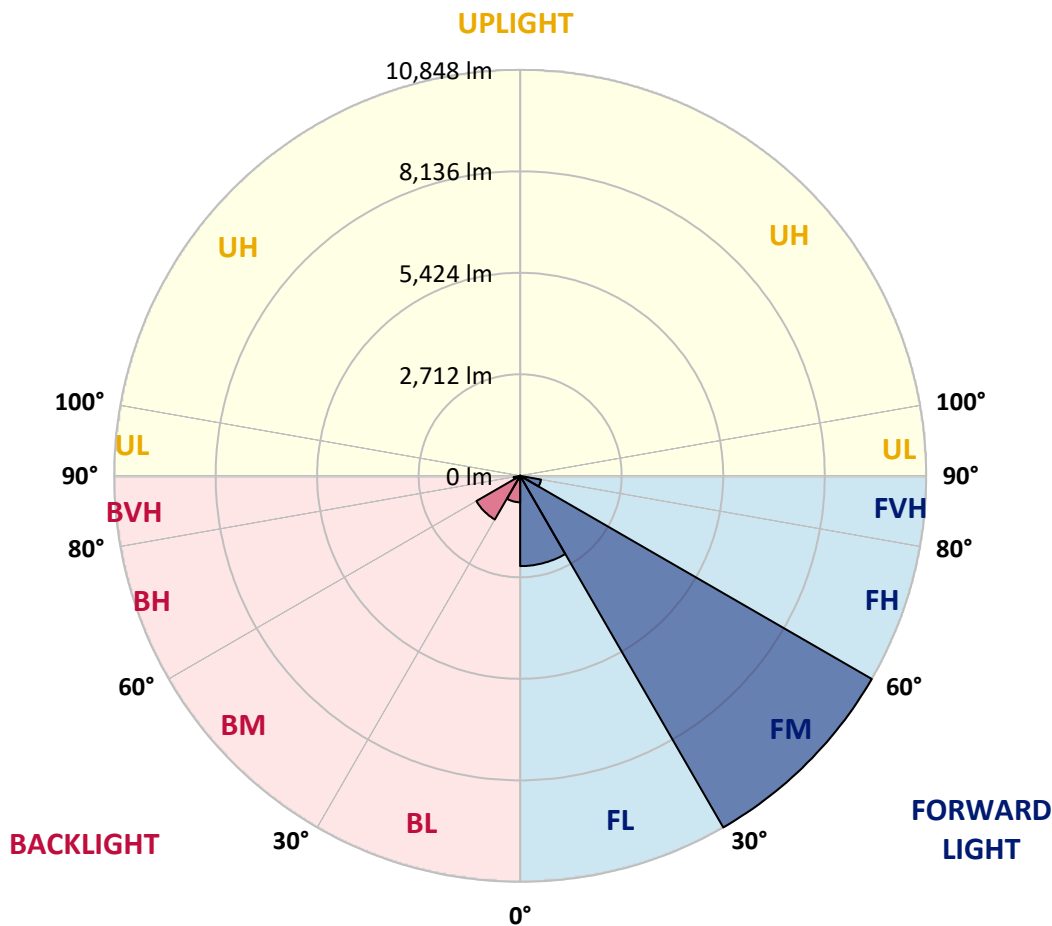
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2412.8	15.0			
FM	(30°-60°)	10848.4	67.4			
FH	(60°-80°)	565.8	3.5			G0/660
FVH	(80°-90°)	10.7	0.1			G1/100
BL	(0°-30°)	706.8	4.4	B2/1000		
BM	(30°-60°)	1349.5	8.4	B2/2500		
BH	(60°-80°)	177.4	1.1	B1/500		G1/500
BVH	(80°-90°)	12.5	0.1			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0
2.5°	2181.6	2165.8	2131.4	2067.9	2041.5	1978.0	1941.0	1869.6	1824.7	1774.4	1718.9
5°	3072.8	2990.8	2940.6	2869.2	2660.3	2530.7	2316.5	2134.0	2049.4	1956.9	1829.9
7.5°	3993.1	3940.2	3871.4	3718.1	3575.3	3305.5	2938.0	2536.0	2364.1	2205.4	1954.2
10°	4754.7	4606.6	4598.6	4484.9	4328.9	4006.3	3564.7	3064.9	2758.1	2525.4	2131.4
12.5°	5286.2	5151.3	5212.2	5198.9	5053.5	4757.3	4246.9	3585.8	3265.9	2903.6	2313.9
15°	5770.1	5714.6	5696.1	5680.2	5622.0	5402.6	4945.1	4220.5	3757.7	3321.4	2520.1
17.5°	6243.5	6100.7	6169.4	6182.7	6177.4	5979.0	5550.6	4823.4	4278.7	3763.0	2737.0
20°	6663.9	6677.2	6584.6	6566.1	6550.2	6542.3	6124.5	5421.1	4918.6	4225.8	3019.9
22.5°	7203.4	7110.8	7192.8	7139.9	7036.8	6973.3	6653.4	5949.9	5474.0	4783.8	3308.2
25°	7840.7	7914.8	7721.7	7700.6	7586.8	7367.4	7079.1	6542.3	6008.1	5302.1	3620.2
27.5°	8626.1	8496.5	8446.3	8329.9	8123.7	8031.1	7692.6	7153.2	6653.4	5846.8	3921.7
30°	9300.4	9266.1	9014.8	8877.3	8697.5	8694.9	8221.5	7980.9	7494.3	6701.0	4336.9
32.5°	9850.5	9699.7	9607.2	9512.0	9366.5	9406.2	9006.9	8880.0	8390.8	7494.3	4826.1
35°	10218.0	10109.6	10054.1	9908.6	9866.3	10043.5	9876.9	9824.0	9422.1	8610.2	5399.9
37.5°	10334.4	10368.8	10358.2	10175.7	10265.6	10744.3	10958.5	10821.0	10609.4	9787.0	6021.3
40°	10437.5	10461.3	10408.4	10622.6	10879.2	11423.9	12198.7	11971.3	11892.0	10979.6	6886.1
42.5°	10495.7	10477.2	10477.2	10847.4	11236.1	12330.9	13396.6	13245.9	13185.1	12249.0	7885.7
45°	10244.5	10064.7	10257.7	10760.2	11542.9	12777.8	14353.9	14562.8	14475.6	13758.9	9054.5
47.5°	9305.7	9416.8	9525.2	10196.9	11170.0	12640.3	14941.0	15652.3	15813.6	15028.2	9821.4
50°	7885.7	7861.9	8086.6	8932.9	10114.9	12048.0	14827.3	15967.0	16260.5	15409.0	9982.7
52.5°	5735.8	5910.3	6153.6	6994.5	8396.0	10514.2	13359.6	15155.2	15546.6	14941.0	9876.9
55°	3339.9	3146.9	3694.3	4405.6	5727.8	7930.6	11294.3	13433.7	14158.2	14089.5	9342.7
57.5°	1338.1	1295.8	1483.5	1999.2	2988.2	4916.0	8213.6	11037.8	12198.7	12904.8	8210.9
60°	587.1	573.8	674.3	814.5	1221.7	2266.3	4492.9	6864.9	8076.1	9017.5	5651.1
62.5°	423.1	417.8	468.1	518.3	645.2	986.4	1888.1	2766.1	3448.3	4165.0	2530.7
65°	341.1	354.4	388.7	415.2	476.0	547.4	666.4	769.5	944.1	978.4	558.0
67.5°	277.7	288.2	320.0	349.1	359.6	296.2	306.8	269.7	269.7	240.6	193.0
70°	203.6	206.3	243.3	277.7	222.1	119.0	208.9	208.9	187.8	179.8	164.0
72.5°	150.7	153.4	182.5	171.9	87.3	74.0	153.4	169.2	153.4	145.4	132.2
75°	111.1	113.7	95.2	39.7	37.0	47.6	89.9	116.4	111.1	108.4	100.5
77.5°	21.2	15.9	13.2	18.5	26.4	39.7	58.2	71.4	74.0	79.3	74.0
80°	2.6	2.6	7.9	15.9	29.1	42.3	60.8	68.8	71.4	74.0	68.8
82.5°	0.0	2.6	7.9	15.9	29.1	39.7	52.9	60.8	66.1	68.8	66.1
85°	0.0	2.6	5.3	13.2	23.8	29.1	26.4	18.5	15.9	18.5	13.2
87.5°	0.0	0.0	2.6	2.6	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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°	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0	1666.0
2.5°	1687.1	1676.6	1639.5	1599.9	1565.5	1581.4	1565.5	1552.3	1557.6	1552.3	1547.0
5°	1779.7	1732.1	1652.8	1618.4	1589.3	1586.7	1578.7	1576.1	1578.7	1578.7	1554.9
7.5°	1867.0	1790.3	1705.7	1668.6	1634.3	1636.9	1618.4	1618.4	1615.7	1602.5	1597.2
10°	1999.2	1896.1	1787.6	1721.5	1679.2	1671.3	1652.8	1634.3	1634.3	1634.3	1607.8
12.5°	2144.6	2015.0	1867.0	1790.3	1740.0	1700.4	1671.3	1666.0	1636.9	1631.6	1618.4
15°	2271.6	2107.6	1919.9	1814.1	1750.6	1697.7	1652.8	1623.7	1610.5	1602.5	1591.9
17.5°	2395.8	2186.9	1948.9	1814.1	1745.3	1684.5	1636.9	1610.5	1578.7	1584.0	1562.9
20°	2562.4	2271.6	1956.9	1779.7	1695.1	1636.9	1573.4	1560.2	1541.7	1525.8	1531.1
22.5°	2723.8	2332.4	1933.1	1737.4	1615.7	1547.0	1515.3	1499.4	1491.5	1478.2	1459.7
25°	2869.2	2398.5	1896.1	1660.7	1531.1	1480.9	1451.8	1449.1	1430.6	1430.6	1396.3
27.5°	3017.3	2422.3	1832.6	1570.8	1457.1	1428.0	1414.8	1409.5	1401.5	1383.0	1359.2
30°	3186.5	2430.2	1740.0	1478.2	1391.0	1359.2	1377.7	1391.0	1356.6	1322.2	1332.8
32.5°	3326.7	2411.7	1629.0	1391.0	1343.4	1327.5	1364.5	1377.7	1338.1	1301.1	1282.5
35°	3495.9	2366.8	1520.5	1322.2	1295.8	1327.5	1359.2	1359.2	1279.9	1234.9	1224.4
37.5°	3752.4	2316.5	1420.1	1264.0	1245.5	1311.6	1353.9	1324.9	1200.6	1145.0	1131.8
40°	4027.5	2284.8	1322.2	1205.9	1219.1	1285.2	1309.0	1219.1	1092.1	1057.8	1047.2
42.5°	4426.8	2221.3	1234.9	1155.6	1195.3	1248.2	1248.2	1086.9	1039.3	1020.7	1018.1
45°	4923.9	2176.4	1158.3	1113.3	1160.9	1174.1	1131.8	1018.1	983.7	978.4	981.1
47.5°	5167.2	2089.1	1078.9	1063.1	1097.4	1100.1	989.0	962.6	933.5	925.5	920.3
50°	5130.2	1933.1	975.8	996.9	1044.5	1018.1	901.7	907.0	880.6	877.9	864.7
52.5°	4871.0	1687.1	872.7	922.9	975.8	899.1	830.3	825.1	825.1	790.7	777.5
55°	4318.3	1359.2	748.4	811.8	875.3	756.3	737.8	732.5	719.3	687.5	679.6
57.5°	3419.2	996.9	563.3	632.0	743.1	642.6	640.0	616.2	581.8	558.0	558.0
60°	2033.6	573.8	354.4	386.1	491.9	521.0	579.1	568.6	510.4	473.4	462.8
62.5°	928.2	296.2	224.8	230.1	264.4	338.5	454.8	526.2	444.3	380.8	375.5
65°	312.0	219.5	185.1	177.2	182.5	203.6	272.4	372.9	354.4	293.5	283.0
67.5°	190.4	195.7	174.5	161.3	161.3	158.7	156.0	169.2	208.9	203.6	206.3
70°	164.0	179.8	161.3	145.4	140.2	132.2	111.1	92.6	79.3	92.6	97.8
72.5°	132.2	142.8	137.5	124.3	111.1	100.5	79.3	60.8	45.0	39.7	39.7
75°	97.8	105.8	111.1	95.2	84.6	71.4	58.2	39.7	23.8	15.9	15.9
77.5°	71.4	79.3	82.0	74.0	63.5	50.2	37.0	26.4	13.2	5.3	5.3
80°	60.8	71.4	79.3	74.0	66.1	47.6	34.4	18.5	10.6	2.6	2.6
82.5°	58.2	71.4	79.3	71.4	63.5	45.0	34.4	21.2	7.9	2.6	2.6
85°	13.2	18.5	23.8	29.1	34.4	34.4	26.4	15.9	7.9	2.6	2.6
87.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	2.6	2.6	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)