

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: P526927

Luminaire Tested: **GALN-SA1D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4640 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 65
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



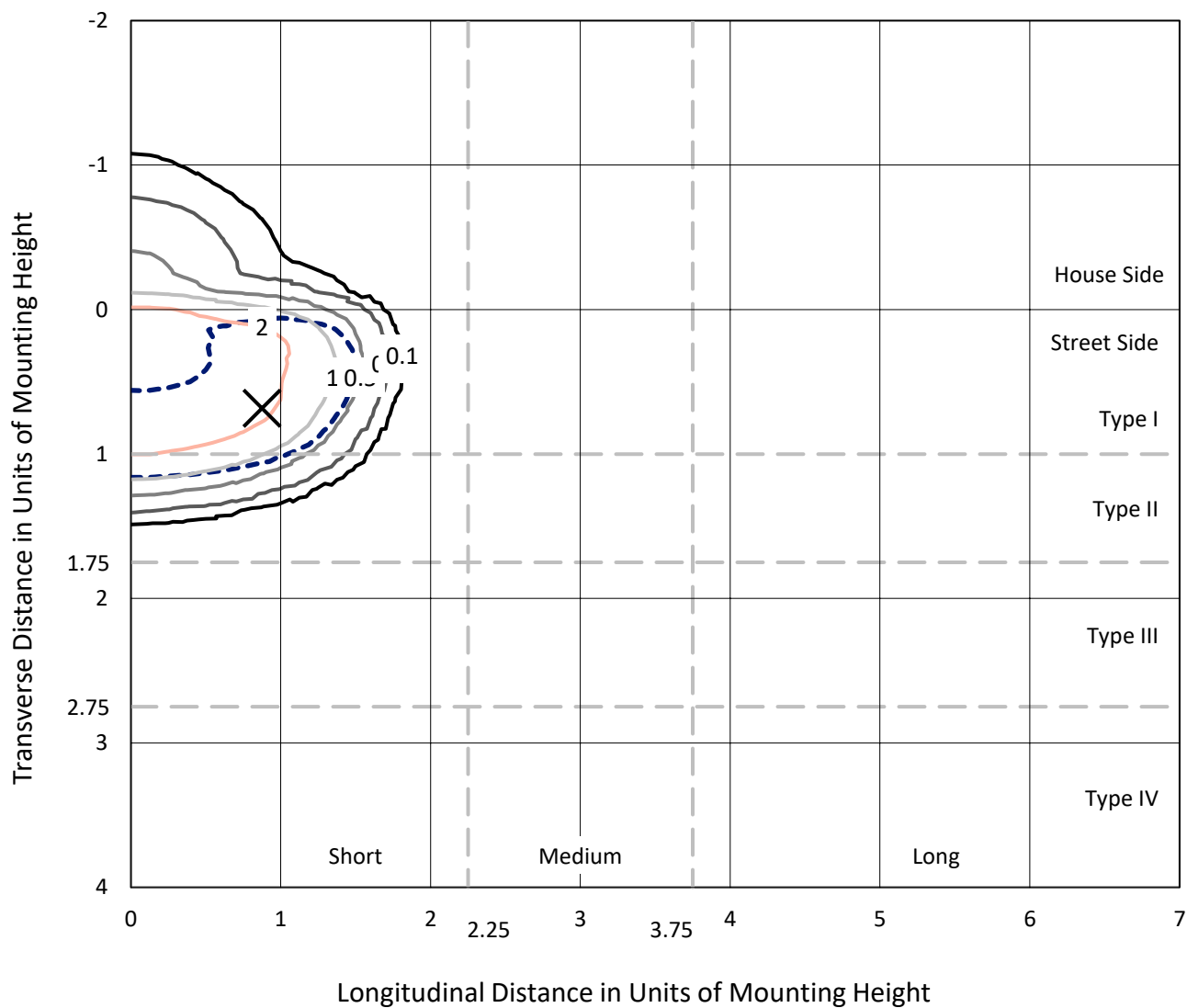
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



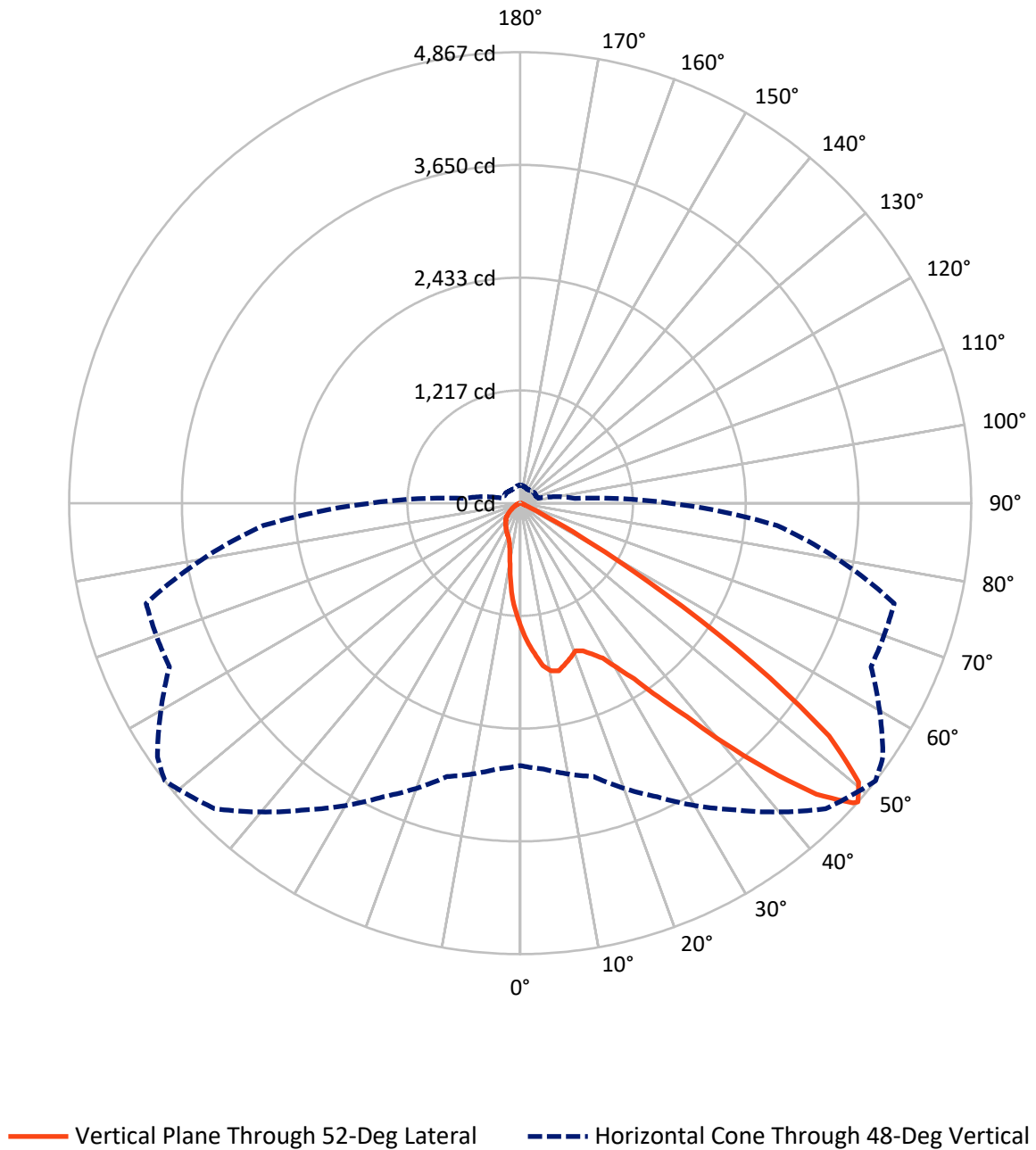
Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	565.0	0.0	565.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4075.0	0.0	4075.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	4640.0	0.0	4640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	2.6
10°-20°	320.5	6.9
20°-30°	547.2	11.8
30°-40°	1007.8	21.7
40°-50°	1565.0	33.7
50°-60°	941.9	20.3
60°-70°	108.9	2.3
70°-80°	21.1	0.5
80°-90°	4.9	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°	4640.0	100.0
0°-180°	4640.0	100.0

Coefficient of Utilization



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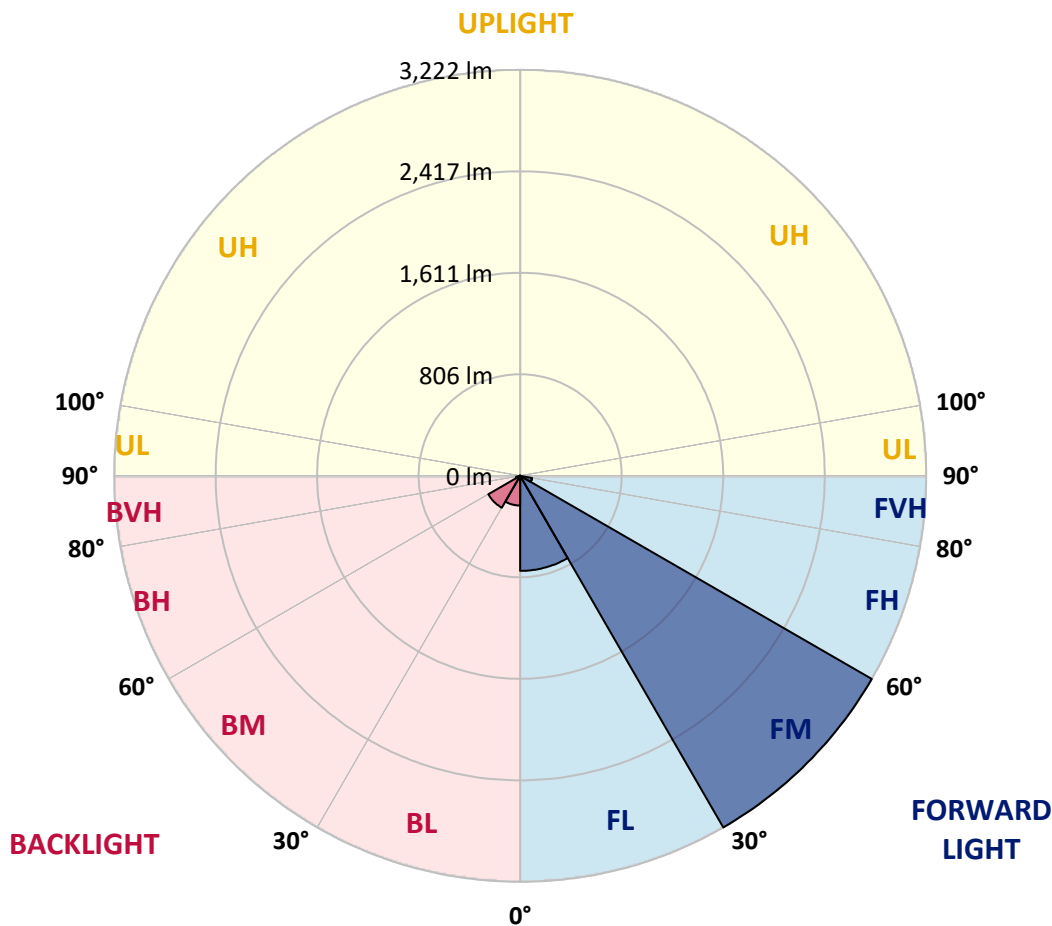
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.4	16.3			
FM	(30°-60°)	3222.4	69.4			
FH	(60°-80°)	95.9	2.1			G0/660
FVH	(80°-90°)	2.3	0.1			G0/10
BL	(0°-30°)	236.0	5.1	B1/500		
BM	(30°-60°)	292.3	6.3	B1/1000		
BH	(60°-80°)	34.1	0.7	B0/110		G0/110
BVH	(80°-90°)	2.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0
2.5°	1624.0	1586.8	1590.2	1565.9	1551.7	1528.7	1497.6	1491.5	1457.6	1411.7	1365.0
5°	1770.1	1761.4	1772.9	1737.7	1739.0	1701.2	1628.1	1629.5	1551.7	1476.6	1404.2
7.5°	1779.6	1759.3	1770.8	1801.9	1820.2	1813.4	1772.2	1736.3	1662.6	1552.3	1446.8
10°	1593.6	1632.2	1644.3	1695.7	1768.8	1845.9	1841.2	1843.2	1781.6	1637.6	1483.4
12.5°	1482.0	1456.3	1497.6	1528.7	1638.9	1788.4	1856.7	1871.6	1876.3	1720.1	1519.9
15°	1431.3	1431.3	1438.0	1446.8	1526.6	1664.6	1804.0	1847.3	1949.4	1828.3	1577.4
17.5°	1463.1	1461.7	1471.2	1452.9	1482.7	1588.9	1755.3	1804.6	2031.2	1934.5	1622.7
20°	1559.8	1564.5	1558.4	1505.7	1507.7	1587.5	1701.2	1778.9	2086.7	2026.5	1682.9
22.5°	1694.4	1697.1	1662.6	1605.1	1588.2	1627.4	1732.3	1791.8	2131.3	2136.8	1701.2
25°	1850.0	1839.1	1832.4	1751.2	1699.8	1733.6	1802.6	1837.1	2159.1	2231.5	1753.2
27.5°	2065.7	2044.1	2002.8	1930.5	1892.6	1844.6	1893.9	1950.7	2238.2	2364.0	1810.1
30°	2384.3	2365.4	2284.9	2191.5	2092.1	2044.8	2060.3	2091.4	2380.9	2517.6	1885.1
32.5°	2863.9	2824.0	2707.6	2529.7	2394.5	2263.9	2259.9	2293.0	2508.8	2730.0	1974.4
35°	3392.2	3380.0	3208.9	3025.6	2763.8	2562.2	2565.6	2583.2	2753.6	3008.6	2091.4
37.5°	3743.2	3810.2	3701.3	3504.4	3284.6	2996.5	2923.4	2929.5	3089.8	3338.7	2302.5
40°	4014.5	3957.6	3970.5	3924.5	3774.3	3578.2	3416.5	3384.7	3478.7	3704.0	2512.2
42.5°	3896.1	3898.8	3977.9	4086.8	4124.0	4109.8	3944.8	3884.6	3811.5	4003.0	2711.7
45°	3561.9	3631.6	3734.4	4022.6	4275.5	4513.0	4480.5	4380.4	4041.5	4239.7	2826.7
47.5°	3028.9	3026.2	3194.7	3569.4	4131.5	4687.5	4834.9	4764.6	4204.5	4213.3	2803.0
48°	2832.1	2880.8	3054.6	3495.7	4040.2	4661.8	4866.7	4778.1	4176.8	4178.1	2782.7
50°	2093.5	2084.7	2301.1	2842.2	3608.6	4380.4	4732.8	4801.8	4176.1	4000.2	2640.7
52.5°	1105.9	1143.8	1301.4	1787.1	2551.4	3584.9	4174.8	4282.3	4028.7	3709.4	2436.4
55°	470.1	424.8	545.9	806.9	1435.3	2395.1	3062.8	3302.2	3406.4	3282.6	2131.3
57.5°	167.7	183.3	211.0	303.7	603.4	1310.9	1826.3	2012.3	2360.0	2408.7	1452.2
60°	107.5	109.6	118.4	139.3	226.6	505.3	866.5	1014.6	1172.2	1210.1	677.8
62.5°	83.2	83.9	87.9	91.3	107.5	196.2	325.3	385.5	400.4	344.3	177.9
65°	69.7	70.3	71.7	71.7	76.4	92.0	113.6	125.1	121.8	120.4	100.8
67.5°	53.4	54.8	57.5	57.5	60.2	56.1	62.9	67.0	75.8	92.0	85.9
70°	41.9	42.6	44.6	46.0	46.0	40.6	45.3	49.4	55.5	68.3	67.6
72.5°	32.5	33.8	35.2	35.2	33.1	27.7	32.5	35.8	39.9	47.3	46.0
75°	25.0	25.0	25.7	21.0	16.2	14.2	19.6	23.7	29.8	31.1	25.7
77.5°	6.8	7.4	6.8	6.1	6.8	10.1	12.9	14.9	18.9	18.9	16.9
80°	0.0	0.7	2.0	4.1	6.8	9.5	11.5	12.9	14.9	16.2	15.6
82.5°	0.0	0.7	2.0	4.1	6.1	7.4	10.1	10.8	12.2	14.2	14.2
85°	0.0	0.7	1.4	2.7	4.1	4.7	4.7	4.1	4.1	3.4	2.7
87.5°	0.0	0.0	0.7	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.0
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°	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0	1340.0
2.5°	1346.7	1325.8	1294.0	1243.9	1195.9	1164.8	1135.0	1101.9	1083.6	1082.2	1072.1
5°	1363.0	1315.6	1239.8	1153.9	1062.0	982.8	903.0	850.9	804.2	778.5	773.8
7.5°	1371.7	1310.2	1187.8	1043.7	886.8	757.6	668.3	602.7	577.0	558.0	557.4
10°	1390.0	1300.7	1110.0	897.6	703.5	572.9	511.4	481.6	467.4	462.0	453.9
12.5°	1403.5	1283.1	1030.2	747.4	556.0	474.8	447.8	441.0	441.7	444.4	441.0
15°	1422.5	1267.6	922.6	613.5	466.7	427.5	427.5	428.8	438.3	439.7	439.0
17.5°	1421.1	1237.1	811.7	505.3	412.6	407.2	409.2	422.1	428.2	430.2	425.5
20°	1437.4	1208.7	697.4	431.5	382.2	390.3	403.8	407.2	414.6	416.0	410.6
22.5°	1432.6	1137.7	591.2	373.4	359.2	374.7	388.3	392.3	390.3	386.2	385.5
25°	1423.8	1076.8	493.8	334.8	342.3	359.2	372.0	364.6	360.5	361.2	361.9
27.5°	1408.3	999.7	413.3	307.8	319.3	344.3	343.6	340.9	345.0	341.6	345.0
30°	1405.6	922.6	347.0	283.4	302.4	320.6	322.0	326.7	331.4	325.3	331.4
32.5°	1409.6	838.1	299.6	268.5	292.2	292.9	307.8	312.5	309.1	295.6	296.9
35°	1440.7	773.1	265.2	260.4	276.0	276.6	290.9	284.8	269.9	261.8	266.5
37.5°	1506.4	719.0	248.9	253.0	254.3	263.1	263.8	251.6	253.0	252.3	255.0
40°	1590.2	677.8	237.4	246.2	244.9	250.9	226.6	233.4	239.4	241.5	242.8
42.5°	1647.7	648.0	230.0	235.4	232.7	221.9	208.3	215.1	219.8	227.3	228.6
45°	1673.4	624.3	221.2	216.4	216.4	196.8	191.4	192.8	203.6	211.7	210.4
47.5°	1631.5	601.3	205.6	191.4	196.2	179.9	173.8	173.8	185.3	195.5	193.5
48°	1615.3	591.9	206.3	186.0	189.4	177.2	171.1	169.8	182.6	192.1	192.1
50°	1534.8	556.7	188.7	171.1	164.4	163.0	159.0	160.3	168.4	177.2	177.2
52.5°	1377.8	480.9	159.6	146.8	134.6	142.7	144.8	142.0	146.1	154.2	153.5
55°	1149.9	369.3	127.8	121.8	112.3	121.1	125.1	121.8	117.7	123.8	123.8
57.5°	736.6	198.9	102.1	103.5	94.0	102.8	106.2	98.1	90.6	95.4	94.7
60°	332.1	119.0	83.9	81.8	75.8	85.9	91.3	81.8	71.7	75.1	78.5
62.5°	124.5	84.6	63.6	62.2	60.9	70.3	73.1	65.6	55.5	57.5	58.2
65°	91.3	74.4	50.7	46.0	48.7	55.5	54.1	46.7	39.9	39.9	41.3
67.5°	77.8	64.9	41.3	35.8	35.8	36.5	33.8	29.8	27.7	29.1	30.4
70°	60.9	51.4	32.5	27.7	25.0	22.3	19.6	18.9	16.9	18.9	18.3
72.5°	39.2	34.5	25.0	21.0	18.9	15.6	12.9	12.2	10.1	9.5	9.5
75°	21.0	21.0	19.6	16.9	14.9	12.2	10.1	8.1	5.4	4.1	4.1
77.5°	14.9	16.2	17.6	16.2	13.5	10.1	8.1	5.4	2.7	1.4	1.4
80°	14.2	16.2	17.6	15.6	13.5	10.1	7.4	4.1	2.0	0.7	0.7
82.5°	12.9	14.9	16.2	14.2	12.2	8.8	6.8	4.1	2.0	0.7	0.7
85°	2.7	3.4	4.1	4.1	4.7	6.1	4.7	3.4	1.4	0.7	0.7
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.4	1.4	0.7	0.7	0.7
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)