

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: P529242

Luminaire Tested: **GALN-SA4B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529242
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-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 14931 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

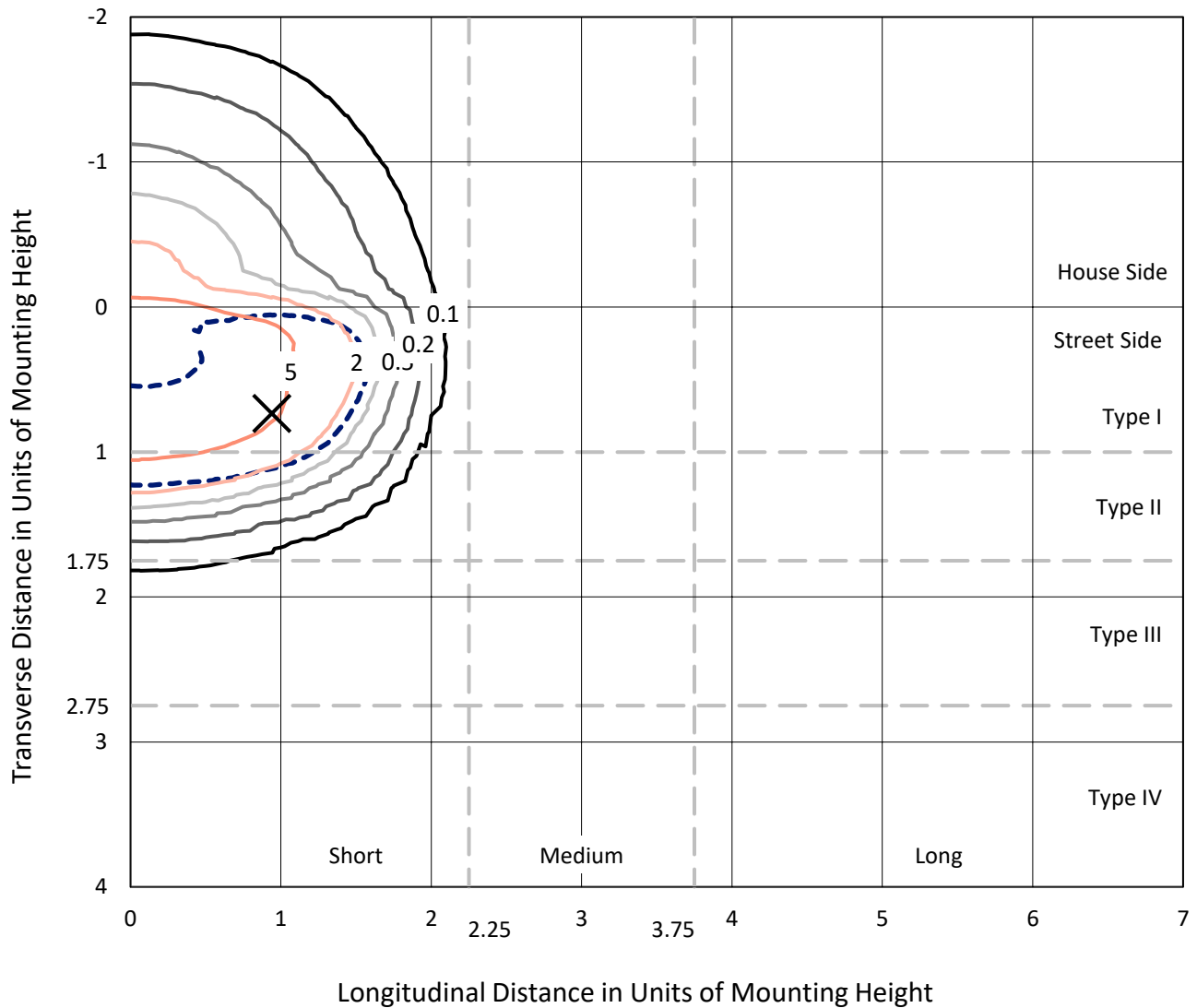
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

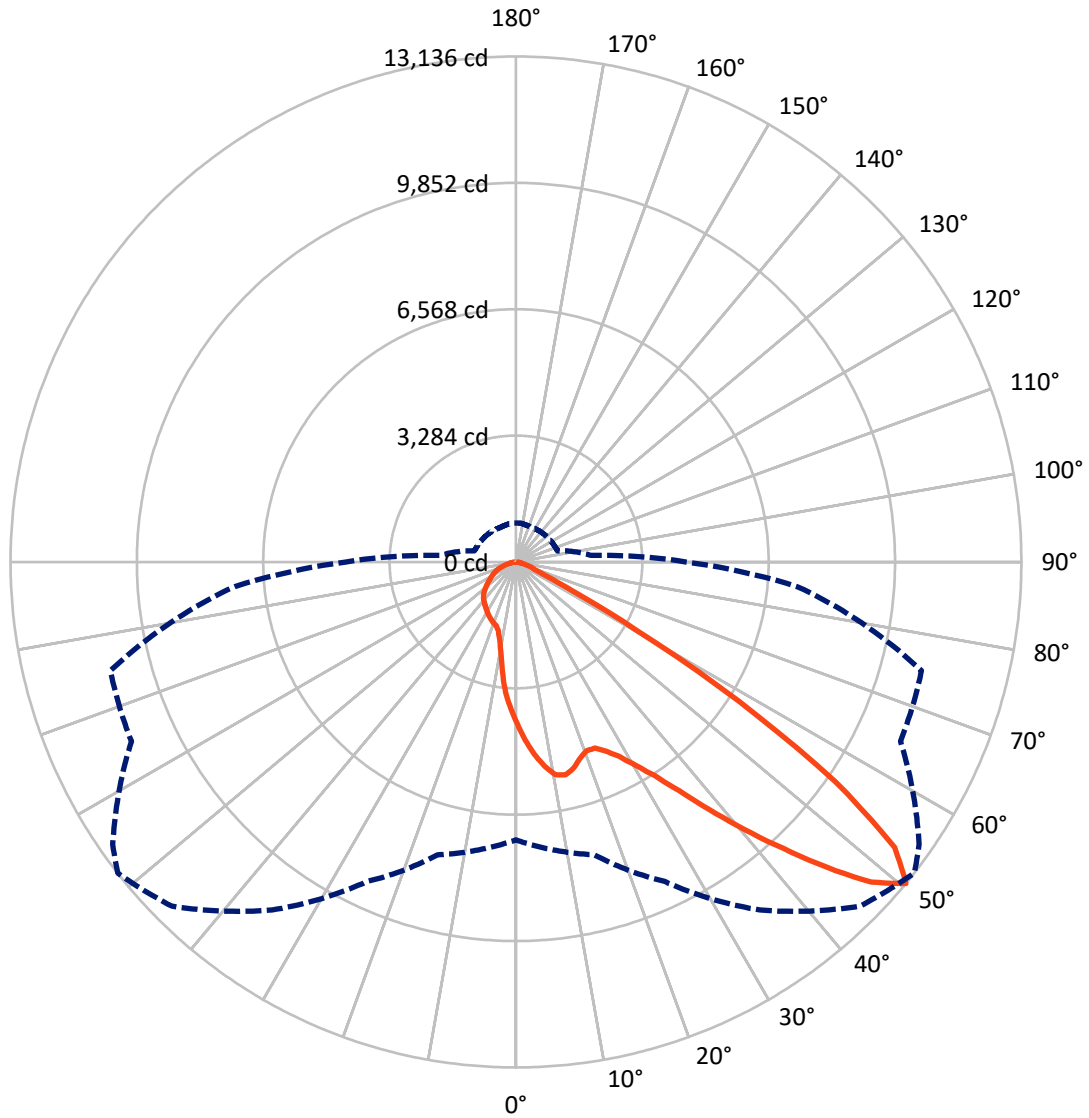
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2806.7	0.0	2806.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12124.3	0.0	12124.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	14931.0	0.0	14931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	2.6
10°-20°	1039.7	7.0
20°-30°	1751.4	11.7
30°-40°	2939.0	19.7
40°-50°	4495.9	30.1
50°-60°	3277.9	22.0
60°-70°	729.5	4.9
70°-80°	263.1	1.8
80°-90°	46.6	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°	14931.0	100.0
0°-180°	14931.0	100.0

Coefficient of Utilization



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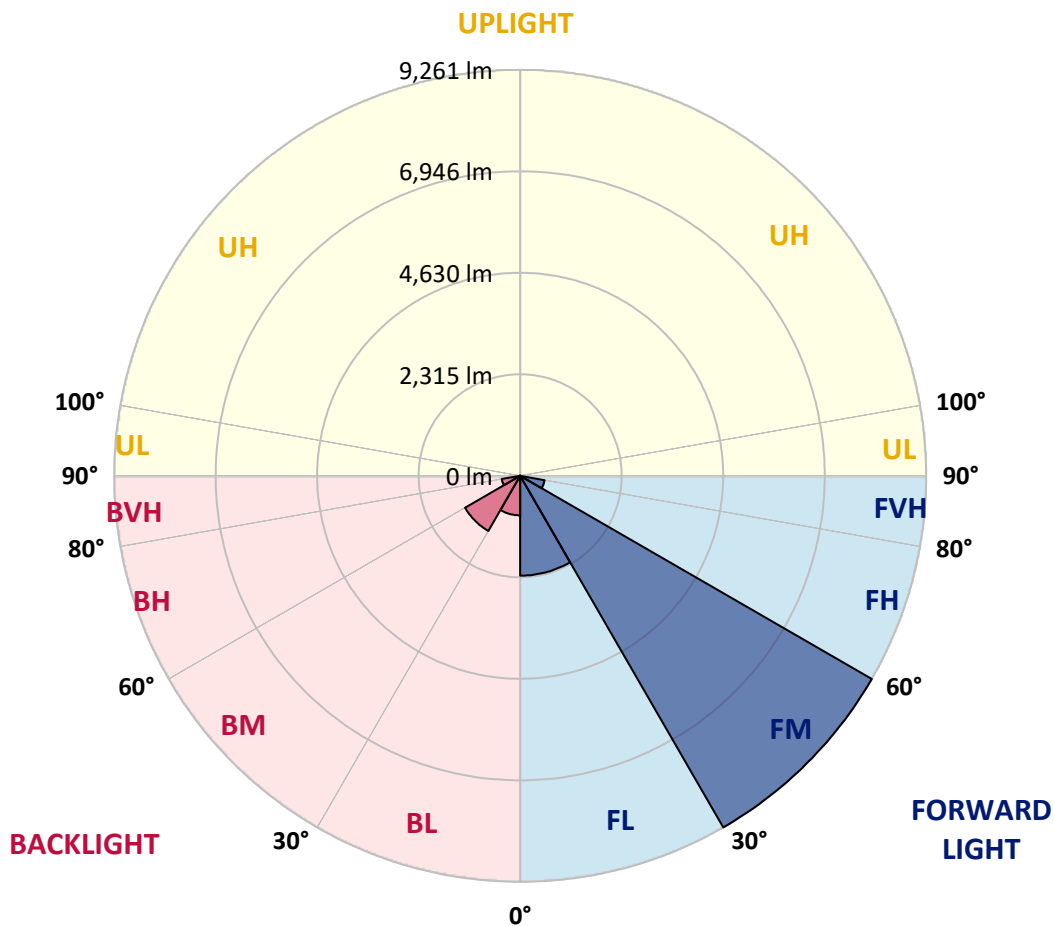
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.5	15.3			
FM (30°-60°)	9261.0	62.0			
FH (60°-80°)	565.0	3.8			G0/660
FVH (80°-90°)	20.9	0.1			G1/100
BL (0°-30°)	901.6	6.0	B2/1000		
BM (30°-60°)	1451.8	9.7	B2/2500		
BH (60°-80°)	427.6	2.9	B1/500		G1/500
BVH (80°-90°)	25.7	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°	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8
2.5°	4955.6	4860.2	4871.0	4802.6	4728.8	4707.2	4631.7	4559.7	4505.7	4390.5	4284.4
5°	5416.2	5387.4	5344.2	5290.2	5234.5	5097.7	5020.3	4930.4	4732.4	4554.3	4377.9
7.5°	5482.8	5477.4	5500.8	5500.8	5520.6	5468.4	5358.6	5295.6	5085.1	4795.4	4467.9
10°	5014.9	5031.1	5144.5	5292.0	5497.2	5639.3	5621.3	5605.1	5374.8	4978.9	4574.1
12.5°	4642.5	4606.5	4673.0	4799.0	5106.7	5450.4	5682.5	5684.3	5624.9	5272.2	4651.5
15°	4431.9	4457.1	4475.1	4534.5	4766.6	5164.3	5572.7	5693.3	5954.2	5479.2	4773.8
17.5°	4566.9	4482.3	4478.7	4493.1	4611.9	4910.6	5369.4	5576.3	6134.2	5745.5	4925.0
20°	4743.2	4741.4	4691.0	4673.0	4671.2	4937.6	5236.3	5517.0	6229.5	6091.0	5077.9
22.5°	5052.7	5052.7	4969.9	4930.4	4845.8	5063.5	5254.3	5445.0	6387.9	6328.5	5151.7
25°	5570.9	5486.4	5344.2	5247.1	5198.5	5275.8	5445.0	5615.9	6526.4	6580.4	5304.6
27.5°	6049.6	5916.4	5846.3	5678.9	5614.1	5569.1	5723.9	5896.6	6688.4	6972.7	5387.4
30°	6593.0	6569.6	6443.7	6227.7	6067.6	5984.8	6127.0	6297.9	6985.3	7373.9	5578.1
32.5°	7564.7	7352.4	7181.4	6916.9	6656.0	6479.6	6620.0	6733.4	7478.3	7793.2	5786.9
35°	8613.7	8545.4	8250.3	7773.4	7373.9	7215.6	7298.4	7382.9	8052.3	8433.8	6137.8
37.5°	9644.8	9551.2	9308.3	8907.0	8421.2	8099.1	8158.5	8257.5	8696.5	9297.5	6566.0
40°	10386.1	10271.0	10148.6	10089.2	9607.0	9166.2	9132.0	9157.2	9567.4	10107.2	7041.1
42.5°	10440.1	10582.3	10620.1	10859.4	10746.0	10384.3	10173.8	10179.2	10398.7	10908.0	7521.5
45°	10326.8	10195.4	10474.3	11127.5	11501.8	11670.9	11316.4	11271.5	10913.4	11372.2	7760.8
47.5°	9137.4	9173.4	9644.8	10677.7	11759.1	12514.8	12432.1	12282.7	11188.7	11356.0	7723.0
50°	7222.8	7440.5	7877.8	9164.4	11039.3	12648.0	13135.6	12790.1	11024.9	10909.8	7338.0
52.5°	4809.8	4899.8	5187.7	6848.5	8876.5	11305.6	12325.9	12405.1	10873.8	10325.0	6850.3
55°	2141.3	2134.1	2539.0	3577.2	5569.1	8602.9	10071.3	10553.5	10292.6	9729.4	6375.3
57.5°	906.9	937.5	1103.0	1545.7	2738.7	5191.3	6823.3	7246.2	7915.6	7989.3	4890.8
60°	613.6	617.2	662.2	773.7	1146.2	2438.2	3579.0	4086.4	4565.1	4532.7	2594.7
62.5°	482.2	494.8	529.0	574.0	680.2	1106.6	1601.5	1884.0	1914.6	1610.5	984.3
65°	412.1	413.9	448.1	485.8	532.6	644.2	771.9	786.3	795.3	766.5	723.4
67.5°	340.1	343.7	370.7	413.9	457.0	493.0	529.0	547.0	588.4	669.4	658.6
70°	269.9	275.3	298.7	334.7	374.3	395.9	440.9	457.0	494.8	557.8	583.0
72.5°	205.1	206.9	226.7	251.9	287.9	309.5	347.3	365.3	390.5	444.5	467.8
75°	147.6	152.9	167.3	179.9	185.3	199.7	235.7	255.5	291.5	314.9	316.7
77.5°	77.4	81.0	84.6	84.6	102.6	129.6	152.9	163.7	188.9	206.9	197.9
80°	30.6	32.4	41.4	55.8	72.0	93.6	109.8	115.2	136.8	147.6	152.9
82.5°	18.0	19.8	27.0	39.6	52.2	66.6	79.2	84.6	99.0	111.6	115.2
85°	9.0	10.8	16.2	25.2	34.2	41.4	39.6	37.8	37.8	36.0	37.8
87.5°	3.6	3.6	5.4	5.4	5.4	7.2	9.0	9.0	9.0	10.8	10.8
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°	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8	4208.8
2.5°	4214.2	4142.2	4075.6	3953.3	3820.1	3782.3	3627.6	3571.8	3532.2	3485.4	3471.0
5°	4235.8	4140.4	3926.3	3679.8	3483.6	3231.7	3066.2	2888.0	2758.5	2726.1	2717.1
7.5°	4280.8	4117.0	3748.2	3375.7	2974.4	2632.5	2371.6	2231.3	2107.1	2099.9	2087.3
10°	4331.2	4046.9	3553.8	2969.0	2456.2	2139.5	1982.9	1921.8	1891.2	1884.0	1880.4
12.5°	4372.5	4032.5	3336.1	2573.1	2089.1	1898.4	1851.6	1846.2	1858.8	1862.4	1869.6
15°	4390.5	3974.9	3073.4	2218.7	1860.6	1790.4	1810.2	1831.8	1840.8	1864.2	1846.2
17.5°	4424.7	3901.1	2749.5	1938.0	1732.8	1745.4	1779.6	1804.8	1819.2	1835.4	1812.0
20°	4442.7	3834.5	2445.4	1770.6	1687.8	1711.2	1758.0	1777.8	1795.8	1803.0	1776.0
22.5°	4426.5	3697.8	2177.3	1635.7	1644.7	1675.2	1716.6	1738.2	1727.4	1698.6	1682.4
25°	4383.3	3505.2	1898.4	1549.3	1583.5	1637.5	1669.8	1653.7	1633.9	1617.7	1612.3
27.5°	4381.5	3269.5	1696.8	1470.1	1531.3	1605.1	1594.3	1579.9	1588.9	1576.3	1561.9
30°	4390.5	3041.0	1531.3	1425.1	1493.5	1529.5	1542.1	1527.7	1538.5	1515.1	1522.3
32.5°	4343.8	2817.9	1423.3	1372.9	1448.5	1446.7	1488.1	1498.9	1473.7	1425.1	1432.3
35°	4363.5	2637.9	1331.6	1349.6	1398.1	1398.1	1430.5	1417.9	1351.4	1322.6	1329.8
37.5°	4500.3	2461.6	1286.6	1317.2	1349.6	1363.9	1353.2	1299.2	1283.0	1283.0	1286.6
40°	4629.9	2310.4	1259.6	1310.0	1304.6	1313.6	1234.4	1239.8	1239.8	1241.6	1232.6
42.5°	4745.0	2207.9	1238.0	1266.8	1275.8	1229.0	1180.4	1175.0	1187.6	1185.8	1178.6
45°	4786.4	2123.3	1207.4	1218.2	1225.4	1148.0	1124.6	1113.8	1128.2	1133.6	1140.8
47.5°	4628.1	2053.1	1173.2	1151.6	1137.2	1086.8	1056.2	1036.5	1054.4	1085.0	1092.2
50°	4424.7	1961.3	1119.2	1077.8	1047.3	1025.7	1004.1	984.3	996.9	1018.5	1013.1
52.5°	4124.2	1817.4	1050.9	1007.7	955.5	960.9	941.1	930.3	937.5	937.5	932.1
55°	3696.0	1493.5	935.7	905.1	861.9	876.3	879.9	865.5	851.1	863.7	852.9
57.5°	2522.8	1054.4	834.9	834.9	791.7	811.5	809.7	775.5	741.4	745.0	737.8
60°	1459.3	840.3	770.1	762.9	718.0	734.2	737.8	714.4	662.2	665.8	658.6
62.5°	829.5	718.0	673.0	662.2	653.2	667.6	667.6	637.0	592.0	595.6	588.4
65°	705.4	665.8	601.0	599.2	595.6	599.2	584.8	552.4	512.8	496.6	498.4
67.5°	640.6	615.4	552.4	536.2	525.4	523.6	496.6	466.0	448.1	433.7	431.9
70°	561.4	541.6	494.8	473.2	462.4	437.3	410.3	390.5	365.3	358.1	365.3
72.5°	444.5	442.7	424.7	401.3	377.9	358.1	334.7	307.7	284.3	278.9	266.3
75°	307.7	311.3	314.9	311.3	291.5	266.3	239.3	217.7	188.9	172.7	169.1
77.5°	201.5	206.9	212.3	205.1	192.5	169.1	151.1	124.2	102.6	90.0	88.2
80°	147.6	154.7	158.3	152.9	138.6	120.6	100.8	79.2	63.0	52.2	52.2
82.5°	113.4	120.6	124.2	115.2	100.8	86.4	72.0	55.8	43.2	34.2	32.4
85°	39.6	37.8	45.0	46.8	55.8	52.2	43.2	32.4	25.2	18.0	16.2
87.5°	10.8	10.8	12.6	12.6	10.8	9.0	9.0	9.0	7.2	5.4	5.4
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)