

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: P527621

Luminaire Tested: **GALN-SA2C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6321 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

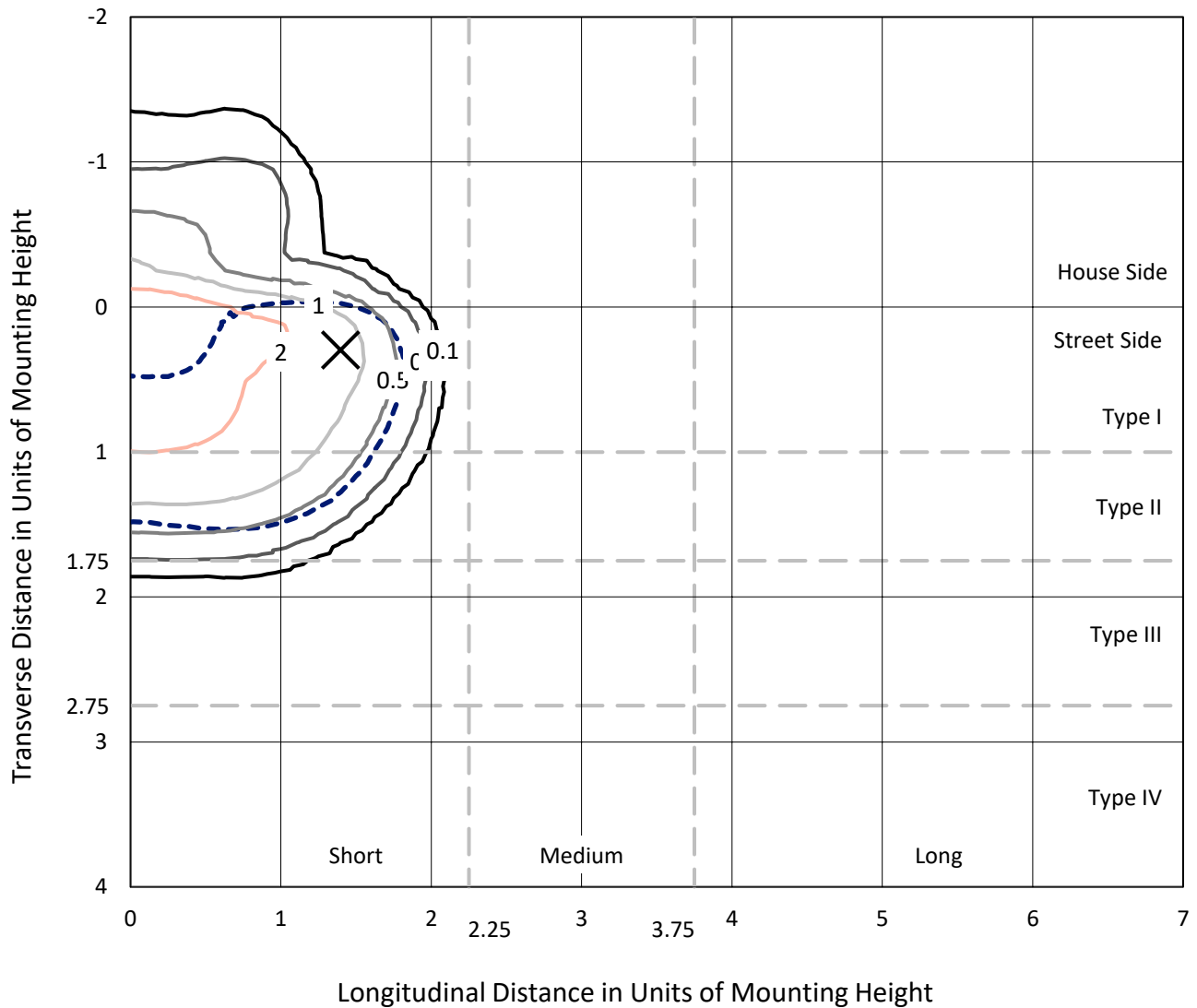
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

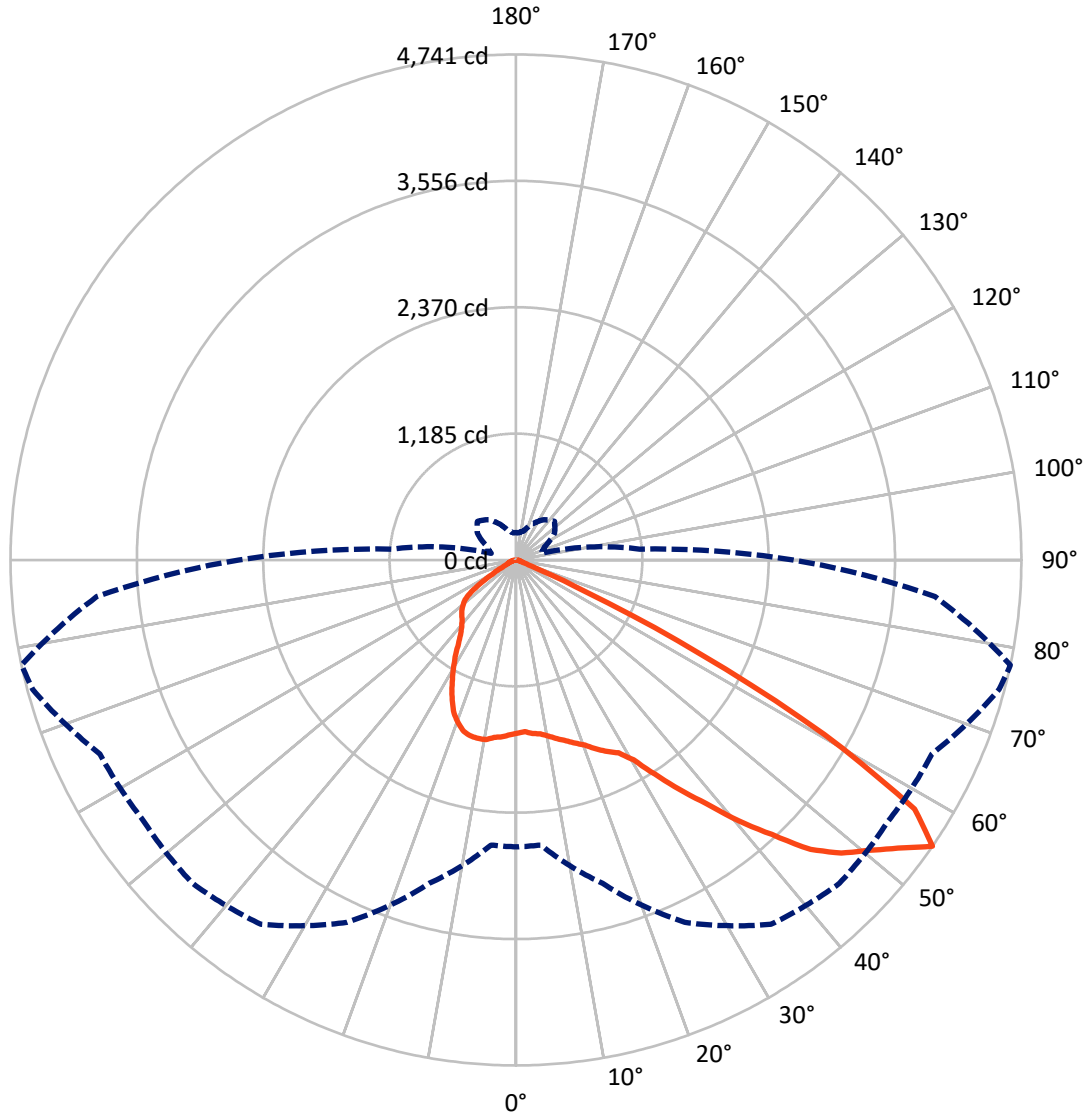
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1174.1	0.0	1174.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5146.9	0.0	5146.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	6321.0	0.0	6321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	2.3
10°-20°	383.5	6.1
20°-30°	672.2	10.6
30°-40°	1108.4	17.5
40°-50°	1612.9	25.5
50°-60°	1827.5	28.9
60°-70°	522.5	8.3
70°-80°	40.6	0.6
80°-90°	8.4	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°	6321.0	100.0
0°-180°	6321.0	100.0

Coefficient of Utilization



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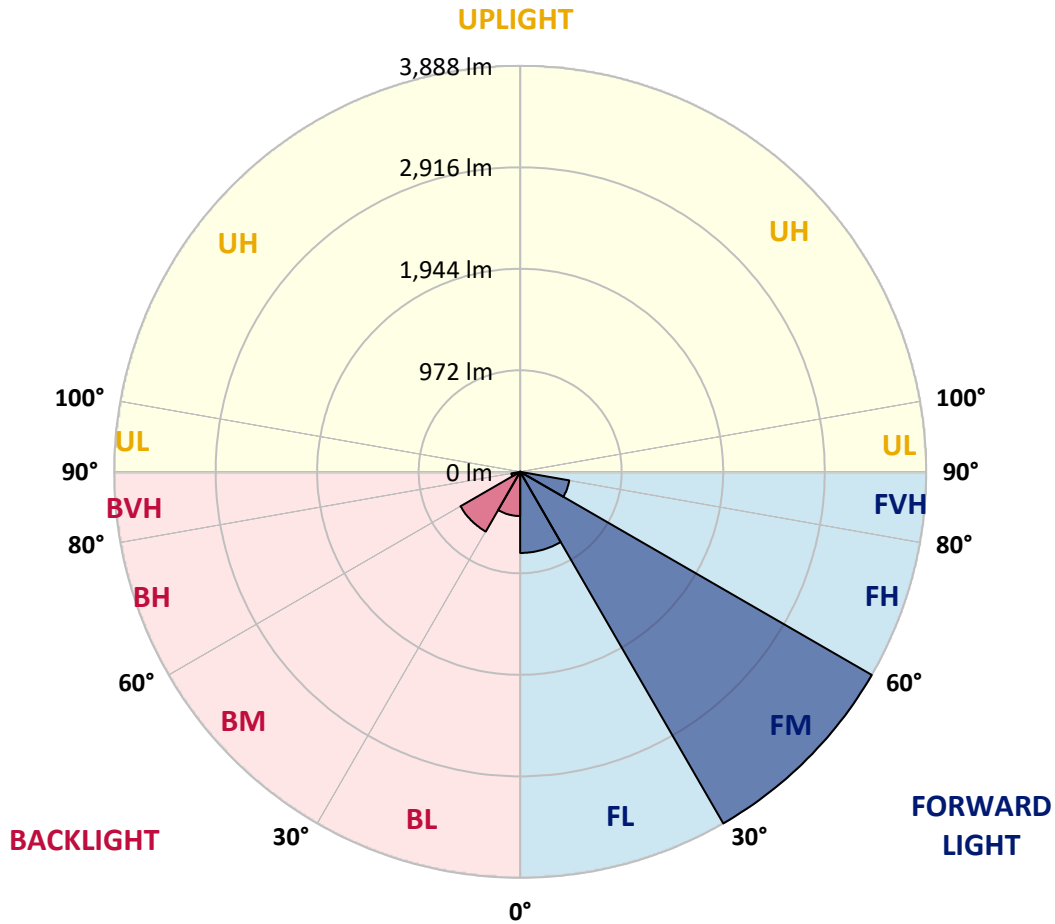
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.0	12.3			
FM (30°-60°)	3888.4	61.5			
FH (60°-80°)	477.4	7.6			G0/660
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	423.6	6.7	B1/500		
BM (30°-60°)	660.4	10.4	B1/1000		
BH (60°-80°)	85.7	1.4	B0/110		G0/110
BVH (80°-90°)	4.3	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°	55°	65°	75°	78°	85°
0°	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1
2.5°	1527.9	1542.6	1544.9	1563.0	1561.8	1592.4	1601.4	1602.5	1622.9	1612.7	1638.7
5°	1485.0	1477.1	1473.7	1505.3	1514.4	1541.5	1564.1	1577.7	1619.5	1634.2	1661.3
7.5°	1446.6	1446.6	1448.8	1477.1	1473.7	1508.7	1532.5	1574.3	1635.3	1647.7	1680.5
10°	1409.3	1395.7	1412.7	1442.1	1466.9	1482.7	1532.5	1572.0	1643.2	1679.4	1724.6
12.5°	1390.1	1396.8	1399.1	1420.6	1447.7	1495.2	1522.3	1587.8	1699.7	1721.2	1769.8
15°	1511.0	1497.4	1464.7	1445.4	1468.0	1490.6	1558.5	1625.1	1729.1	1759.6	1813.9
17.5°	1651.1	1639.8	1612.7	1560.7	1509.9	1551.7	1604.8	1665.8	1760.7	1806.0	1886.2
20°	1834.2	1816.1	1789.0	1687.3	1643.2	1598.0	1654.5	1726.8	1812.7	1853.4	1935.9
22.5°	2052.3	2052.3	1991.3	1868.1	1776.6	1733.6	1757.4	1799.2	1870.4	1925.7	2007.1
25°	2279.5	2272.7	2217.3	2089.6	1934.8	1883.9	1911.1	1940.4	1959.7	1990.2	2044.4
27.5°	2539.4	2499.9	2429.8	2288.5	2151.8	2053.5	2082.8	2056.8	2033.1	2048.9	2126.9
30°	2715.7	2740.6	2651.3	2515.7	2386.8	2277.2	2282.9	2260.3	2151.8	2174.4	2220.7
32.5°	2898.8	2914.6	2864.9	2790.3	2661.5	2533.8	2487.4	2468.2	2386.8	2397.0	2351.8
35°	3051.4	3081.9	3037.8	3005.0	2967.7	2864.9	2737.2	2799.3	2668.2	2643.4	2525.8
37.5°	3191.5	3182.5	3234.4	3200.5	3192.6	3120.3	2980.2	2992.6	2904.4	2898.8	2763.2
40°	3316.9	3319.2	3390.4	3406.2	3374.6	3245.7	3042.3	3140.6	3211.8	3218.6	3044.6
42.5°	3420.9	3451.4	3512.5	3640.2	3592.7	3378.0	3106.7	3214.1	3478.6	3520.4	3311.3
45°	3511.3	3573.5	3649.2	3763.3	3736.2	3565.6	3267.2	3365.5	3763.3	3873.0	3562.2
47.5°	3517.0	3598.3	3680.8	3850.4	3884.3	3666.2	3433.3	3605.1	3989.4	4108.0	3745.3
50°	3494.4	3537.3	3702.3	3886.5	3963.4	3830.0	3666.2	3806.3	4208.6	4283.2	3837.9
52.5°	3226.5	3259.3	3590.4	3920.4	4105.8	4015.4	3974.7	4086.6	4432.4	4487.8	3925.0
55°	2689.7	2684.1	3139.5	3749.8	4171.3	4290.0	4265.1	4304.7	4691.2	4740.9	3946.4
57.5°	1839.9	1942.7	2336.0	3122.6	3770.1	4225.6	4251.6	4186.0	4389.4	4408.7	3440.1
60°	992.3	1035.2	1351.6	2084.0	2870.5	3443.5	3511.3	3392.7	3376.8	3322.6	2455.8
62.5°	394.4	415.9	595.6	1031.8	1564.1	2093.0	2238.8	2190.2	2086.2	1943.8	1271.4
65°	187.6	201.2	296.1	482.6	693.9	872.5	1018.3	1063.5	784.3	706.3	419.3
67.5°	127.7	137.9	215.9	275.8	247.5	258.8	336.8	313.0	184.2	157.1	116.4
70°	97.2	104.0	172.9	187.6	110.8	78.0	87.0	81.4	75.7	76.8	75.7
72.5°	68.9	74.6	126.6	110.8	48.6	36.2	46.3	55.4	55.4	55.4	54.2
75°	41.8	47.5	73.5	42.9	19.2	19.2	29.4	37.3	39.6	40.7	38.4
77.5°	21.5	27.1	24.9	12.4	12.4	14.7	21.5	26.0	28.3	28.3	27.1
80°	4.5	4.5	4.5	6.8	12.4	15.8	21.5	23.7	27.1	27.1	24.9
82.5°	0.0	1.1	3.4	6.8	11.3	14.7	20.3	23.7	27.1	28.3	26.0
85°	0.0	1.1	2.3	4.5	7.9	9.0	7.9	6.8	6.8	6.8	6.8
87.5°	0.0	0.0	1.1	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3
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°	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1	1625.1
2.5°	1641.0	1644.3	1638.7	1637.6	1633.0	1646.6	1613.8	1605.9	1626.3	1607.1	1611.6
5°	1662.4	1670.3	1660.2	1643.2	1618.4	1579.9	1547.2	1504.2	1483.9	1469.2	1466.9
7.5°	1678.2	1683.9	1673.7	1619.5	1544.9	1447.7	1375.4	1322.3	1280.4	1268.0	1247.7
10°	1742.7	1743.8	1692.9	1573.1	1427.4	1299.7	1188.9	1107.5	1065.7	1039.7	1028.4
12.5°	1785.6	1783.4	1680.5	1481.6	1287.2	1117.7	991.1	892.8	854.4	841.9	834.0
15°	1839.9	1827.4	1651.1	1387.8	1106.4	923.3	809.2	741.4	738.0	730.1	738.0
17.5°	1882.8	1847.8	1608.2	1217.2	933.5	760.6	686.0	690.5	699.6	707.5	708.6
20°	1952.9	1880.5	1509.9	1068.0	773.0	652.1	651.0	671.3	693.9	702.9	712.0
22.5°	2006.0	1894.1	1404.8	908.6	641.9	608.0	627.2	657.7	674.7	683.7	697.3
25°	2025.2	1856.8	1264.6	749.3	578.6	587.7	617.1	637.4	658.9	669.0	663.4
27.5°	2044.4	1837.6	1097.4	617.1	544.7	574.1	599.0	619.3	626.1	639.7	648.7
30°	2090.7	1770.9	947.1	533.4	527.8	565.1	583.1	589.9	608.0	615.9	615.9
32.5°	2128.0	1744.9	787.7	493.9	525.5	569.6	571.8	571.8	574.1	568.5	566.2
35°	2204.9	1655.6	645.3	470.1	524.4	570.7	576.4	557.2	505.2	484.8	479.2
37.5°	2299.8	1598.0	540.2	464.5	532.3	584.3	593.3	521.0	453.2	420.4	414.8
40°	2415.1	1557.3	471.3	462.2	550.4	615.9	588.8	492.7	404.6	357.1	354.9
42.5°	2549.6	1520.0	424.9	461.1	573.0	648.7	584.3	469.0	354.9	323.2	327.7
45°	2656.9	1499.7	393.3	453.2	580.9	667.9	587.7	427.2	334.5	314.2	316.4
47.5°	2740.6	1456.7	367.3	439.6	579.8	674.7	557.2	410.2	324.3	330.0	335.6
50°	2742.8	1399.1	334.5	410.2	562.8	662.3	622.1	394.4	322.1	345.8	357.1
52.5°	2712.3	1317.7	299.5	368.4	523.3	619.3	490.5	387.6	311.9	309.7	323.2
55°	2603.8	1165.2	240.7	298.4	441.9	510.8	462.2	375.2	281.4	255.4	257.7
57.5°	2104.3	835.2	177.4	213.6	313.0	374.1	417.0	369.6	253.2	217.0	218.1
60°	1303.0	473.5	130.0	145.8	193.3	227.2	337.9	343.6	226.0	183.1	180.8
62.5°	669.0	233.9	100.6	102.8	118.7	133.4	231.7	288.2	204.6	174.0	174.0
65°	223.8	115.3	88.2	79.1	79.1	82.5	140.1	200.0	172.9	145.8	145.8
67.5°	96.1	85.9	76.8	68.9	63.3	59.9	79.1	116.4	128.8	110.8	106.2
70°	74.6	72.3	66.7	57.6	49.7	45.2	46.3	59.9	73.5	71.2	68.9
72.5°	55.4	55.4	53.1	45.2	38.4	32.8	30.5	31.6	35.0	36.2	37.3
75°	38.4	39.6	39.6	35.0	28.3	23.7	20.3	17.0	13.6	11.3	10.2
77.5°	26.0	27.1	29.4	26.0	21.5	15.8	12.4	9.0	5.7	2.3	2.3
80°	22.6	26.0	28.3	26.0	22.6	17.0	12.4	6.8	3.4	0.0	0.0
82.5°	23.7	26.0	29.4	24.9	21.5	15.8	12.4	7.9	3.4	1.1	0.0
85°	5.7	5.7	6.8	7.9	10.2	11.3	9.0	5.7	3.4	1.1	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	0.0	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)