

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: P526527

Luminaire Tested: **GALN-SA1C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3553 lumens
Efficiency: N/A
Efficacy: 62.3 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

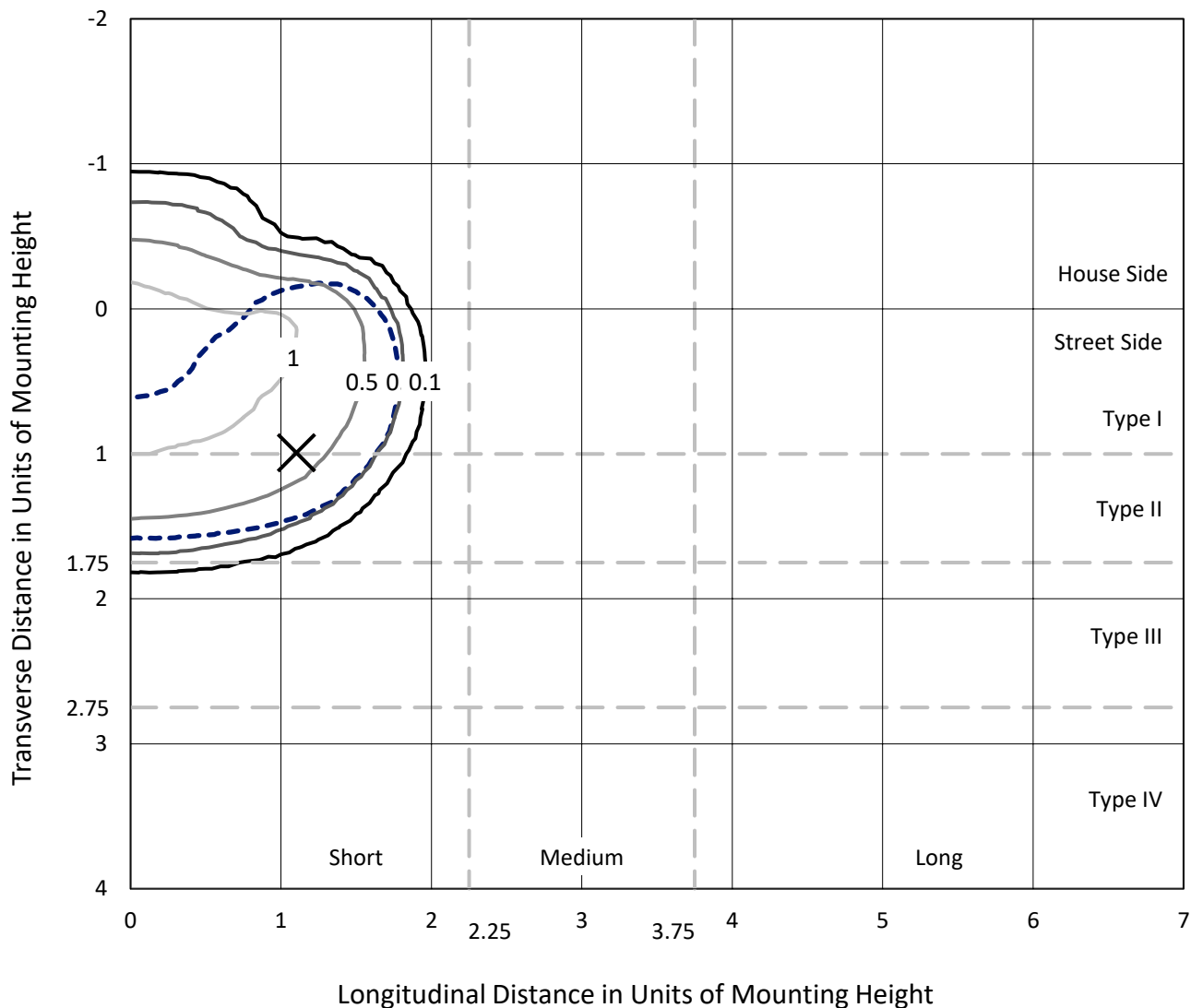
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

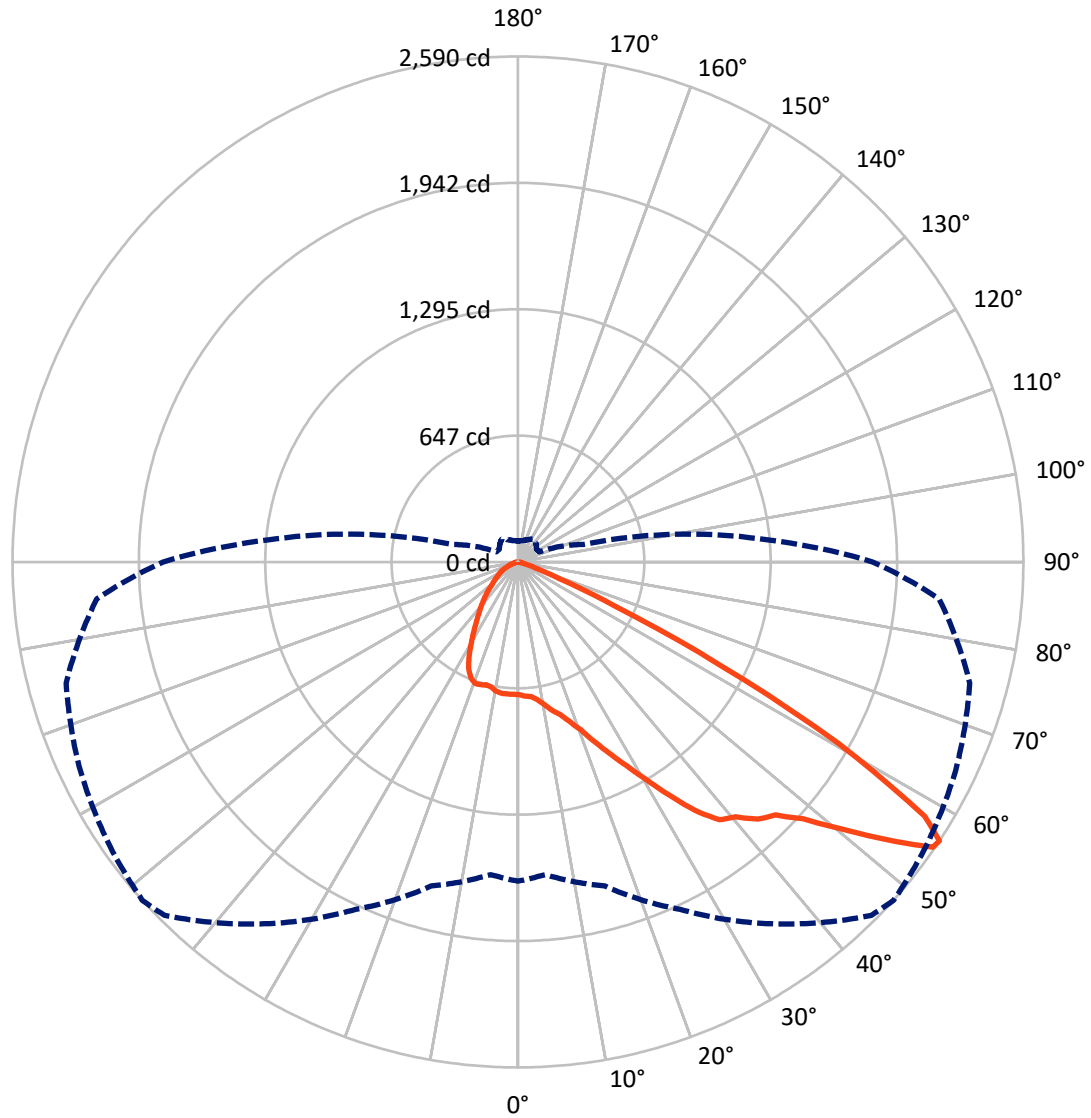
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.7	0.0	772.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2780.3	0.0	2780.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	3553.0	0.0	3553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	1.9
10°-20°	211.3	5.9
20°-30°	383.2	10.8
30°-40°	601.9	16.9
40°-50°	878.1	24.7
50°-60°	1057.9	29.8
60°-70°	309.7	8.7
70°-80°	39.3	1.1
80°-90°	5.5	0.2
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°	3553.0	100.0
0°-180°	3553.0	100.0

Coefficient of Utilization

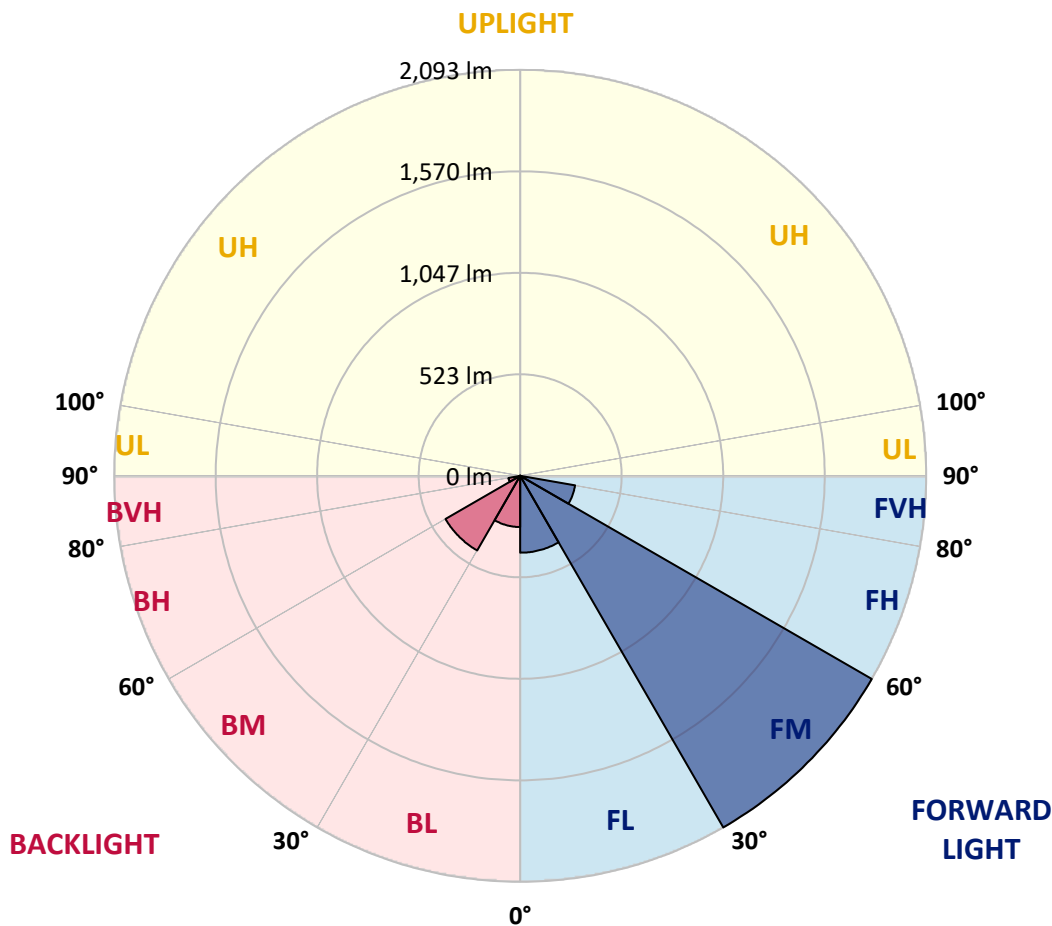


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.4	11.2			
FM (30°-60°)	2093.4	58.9			
FH (60°-80°)	287.6	8.1			G0/660
FVH (80°-90°)	2.8	0.1			G0/10
BL (0°-30°)	264.1	7.4	B1/500		
BM (30°-60°)	444.5	12.5	B1/1000		
BH (60°-80°)	61.4	1.7	B0/110		G0/110
BVH (80°-90°)	2.7	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°	48°	55°	65°	75°	85°
0°	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6
2.5°	690.9	687.7	687.7	682.5	688.3	685.7	687.7	681.2	687.7	678.0	685.7
5°	694.2	694.8	692.2	695.4	695.4	699.3	692.9	698.7	701.9	694.8	691.6
7.5°	711.0	712.3	711.6	709.0	714.2	713.6	712.9	708.4	709.7	707.1	703.2
10°	744.0	743.3	746.6	740.1	736.2	740.7	742.0	734.9	729.7	727.8	715.5
12.5°	791.8	784.1	779.5	773.1	775.0	768.5	780.2	767.9	765.3	753.7	741.4
15°	830.7	829.4	830.0	819.7	808.0	810.6	810.6	804.1	800.2	786.0	768.5
17.5°	910.2	883.1	888.9	875.9	866.2	865.6	859.8	861.1	850.7	820.9	794.4
20°	972.3	960.7	951.6	929.6	914.8	919.3	916.7	910.2	907.0	868.2	830.7
22.5°	1028.0	1031.8	1017.0	1011.1	990.4	992.4	997.6	991.7	967.2	927.0	871.4
25°	1106.2	1101.7	1081.7	1074.5	1055.1	1062.3	1082.3	1077.8	1062.3	989.8	903.1
27.5°	1198.8	1183.2	1187.1	1154.8	1136.0	1156.1	1180.0	1202.6	1158.6	1063.5	940.6
30°	1264.1	1247.9	1246.6	1245.3	1240.8	1264.1	1291.9	1312.6	1277.0	1137.3	1002.7
32.5°	1296.4	1300.3	1311.3	1307.4	1346.9	1394.8	1423.9	1453.6	1409.0	1257.6	1084.9
35°	1382.5	1357.9	1382.5	1385.1	1425.8	1527.4	1564.3	1635.4	1624.4	1427.8	1185.2
37.5°	1432.9	1431.0	1434.2	1458.8	1498.3	1623.8	1676.2	1731.2	1710.5	1530.0	1310.0
40°	1516.4	1521.6	1520.9	1539.7	1583.0	1696.2	1717.6	1762.2	1764.2	1671.7	1493.8
42.5°	1650.3	1629.6	1616.0	1635.4	1696.2	1759.0	1801.7	1792.6	1856.7	1843.7	1729.9
45°	1770.6	1782.9	1762.9	1795.2	1817.2	1850.9	1849.6	1869.0	1950.5	2011.9	1907.8
47.5°	1883.2	1891.0	1900.7	1922.7	1970.5	1975.7	1964.7	1956.3	2068.9	2132.3	2045.6
50°	1950.5	1957.6	2002.9	2042.3	2131.6	2143.3	2149.7	2128.4	2204.7	2211.8	2175.6
52.5°	1932.4	1940.1	2003.5	2133.6	2275.9	2382.6	2363.2	2327.0	2322.5	2350.3	2295.9
55°	1771.9	1764.8	1852.1	2054.6	2321.2	2577.4	2579.9	2541.8	2468.7	2449.9	2277.8
56°	1635.4	1607.6	1718.9	1963.4	2262.9	2560.5	2589.6	2548.9	2480.3	2396.2	2165.9
57.5°	1339.8	1366.3	1476.9	1679.4	2061.8	2439.6	2456.4	2446.7	2394.9	2253.9	1905.8
60°	738.8	785.4	883.1	1130.8	1467.9	1872.2	1885.8	1964.7	1974.4	1726.0	1311.3
62.5°	313.8	308.6	410.2	592.6	835.8	1130.2	1155.4	1236.3	1251.2	995.0	657.9
65°	127.4	134.6	185.7	298.2	441.8	515.0	550.5	577.1	626.2	410.8	242.6
67.5°	84.1	83.5	109.3	170.1	238.1	229.7	229.7	242.6	224.5	167.6	104.8
70°	60.2	62.1	78.3	117.7	148.1	110.0	105.4	100.9	114.5	110.6	84.7
72.5°	39.5	42.1	52.4	70.5	77.0	60.2	60.2	72.5	94.5	89.3	69.2
75°	25.9	26.5	32.3	40.8	38.2	31.1	34.3	48.5	68.6	66.0	49.2
77.5°	17.5	18.1	22.0	26.5	21.3	17.5	18.8	24.6	33.6	33.6	25.9
80°	6.5	7.1	9.1	8.4	9.7	12.3	13.6	16.8	20.1	20.1	17.5
82.5°	0.0	0.6	1.9	4.5	7.1	9.7	11.0	12.9	14.9	16.8	16.2
85°	0.0	0.6	1.9	3.2	5.2	5.8	6.5	4.5	3.9	3.9	3.2
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.6	0.6
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°	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6	678.6
2.5°	678.6	678.0	678.0	676.0	679.9	678.0	679.3	678.6	670.2	676.7	672.2
5°	685.7	690.3	683.2	681.9	676.7	678.6	678.6	672.2	678.0	677.3	676.0
7.5°	703.9	696.1	688.3	680.6	679.3	677.3	670.2	667.6	672.2	667.0	674.7
10°	711.6	712.9	701.3	690.9	681.2	667.6	657.9	652.1	645.0	652.7	657.3
12.5°	747.2	734.3	714.2	698.0	665.0	651.5	641.7	639.2	651.5	654.0	649.5
15°	759.5	757.5	731.7	695.4	661.2	645.0	646.9	641.7	643.0	636.6	637.9
17.5°	784.7	762.7	732.3	687.0	660.5	656.6	645.0	624.3	612.6	607.5	612.0
20°	812.5	791.2	747.2	690.3	666.3	656.0	617.8	592.6	568.6	555.7	556.4
22.5°	837.1	810.6	740.7	691.6	671.5	628.8	582.9	533.1	503.3	483.3	483.9
25°	866.9	829.4	743.3	694.2	657.9	585.5	519.5	471.0	435.4	421.8	426.3
27.5°	883.7	841.0	757.5	700.0	622.3	524.0	452.8	407.6	386.9	380.4	379.7
30°	934.2	866.9	775.0	688.3	562.8	458.0	392.0	364.2	344.2	338.3	339.6
32.5°	1009.2	914.1	797.7	657.9	502.0	399.2	352.6	331.9	313.1	302.1	300.8
35°	1072.0	995.0	821.6	610.7	431.5	353.9	324.8	298.9	270.4	258.1	254.9
37.5°	1191.6	1086.2	816.4	539.5	364.2	320.2	295.0	263.3	238.7	221.9	220.0
40°	1350.8	1192.9	791.2	452.8	314.4	290.5	263.3	232.9	202.5	188.3	187.0
42.5°	1544.2	1323.6	745.3	364.9	264.6	260.7	236.1	201.2	174.0	163.7	164.3
45°	1701.4	1435.5	698.7	293.1	227.7	231.6	210.3	177.3	158.5	150.1	150.1
47.5°	1841.1	1511.2	648.2	242.0	193.4	202.5	183.7	164.3	148.1	141.7	140.4
50°	1975.7	1588.2	597.8	196.0	165.0	174.0	172.1	156.6	143.6	135.9	136.5
52.5°	2059.8	1600.5	533.7	160.4	144.3	154.6	161.1	146.9	132.6	128.1	126.8
55°	1956.9	1442.0	414.0	132.0	122.3	135.9	148.1	132.0	121.0	113.2	112.6
56°	1818.5	1289.3	346.1	121.6	115.8	130.7	143.6	126.2	113.9	109.3	106.1
57.5°	1539.7	1055.1	255.5	108.0	107.4	121.6	136.5	120.3	106.1	102.2	102.2
60°	960.0	593.9	154.6	90.6	93.2	108.0	122.9	107.4	94.5	94.5	96.4
62.5°	437.3	247.1	93.8	77.0	80.2	93.2	109.3	97.0	89.9	97.0	98.3
65°	148.8	106.7	67.9	61.5	63.4	77.0	93.8	98.3	97.7	102.2	104.8
67.5°	83.5	68.6	56.9	51.1	49.8	56.9	77.0	98.3	94.5	92.5	93.8
70°	70.5	58.2	50.5	45.3	43.3	45.9	59.5	74.4	66.6	64.7	63.4
72.5°	56.9	48.5	44.0	40.8	34.9	29.8	27.2	28.5	31.7	33.6	36.9
75°	40.1	36.9	36.9	33.0	25.2	18.8	14.9	12.3	8.4	5.8	6.5
77.5°	22.6	22.6	23.3	20.1	16.2	12.3	9.1	6.5	3.2	1.3	0.6
80°	15.5	16.8	18.1	16.2	13.6	11.0	7.8	4.5	1.9	0.0	0.0
82.5°	15.5	17.5	18.8	16.2	13.6	10.4	7.8	4.5	1.9	0.6	0.0
85°	3.2	3.9	4.5	5.2	7.8	7.8	5.8	3.9	1.9	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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)