

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: P526399

Luminaire Tested: **GALN-SA1B-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526399
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-SA1B-750-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3502 lumens
Efficiency: N/A
Efficacy: 79.6 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

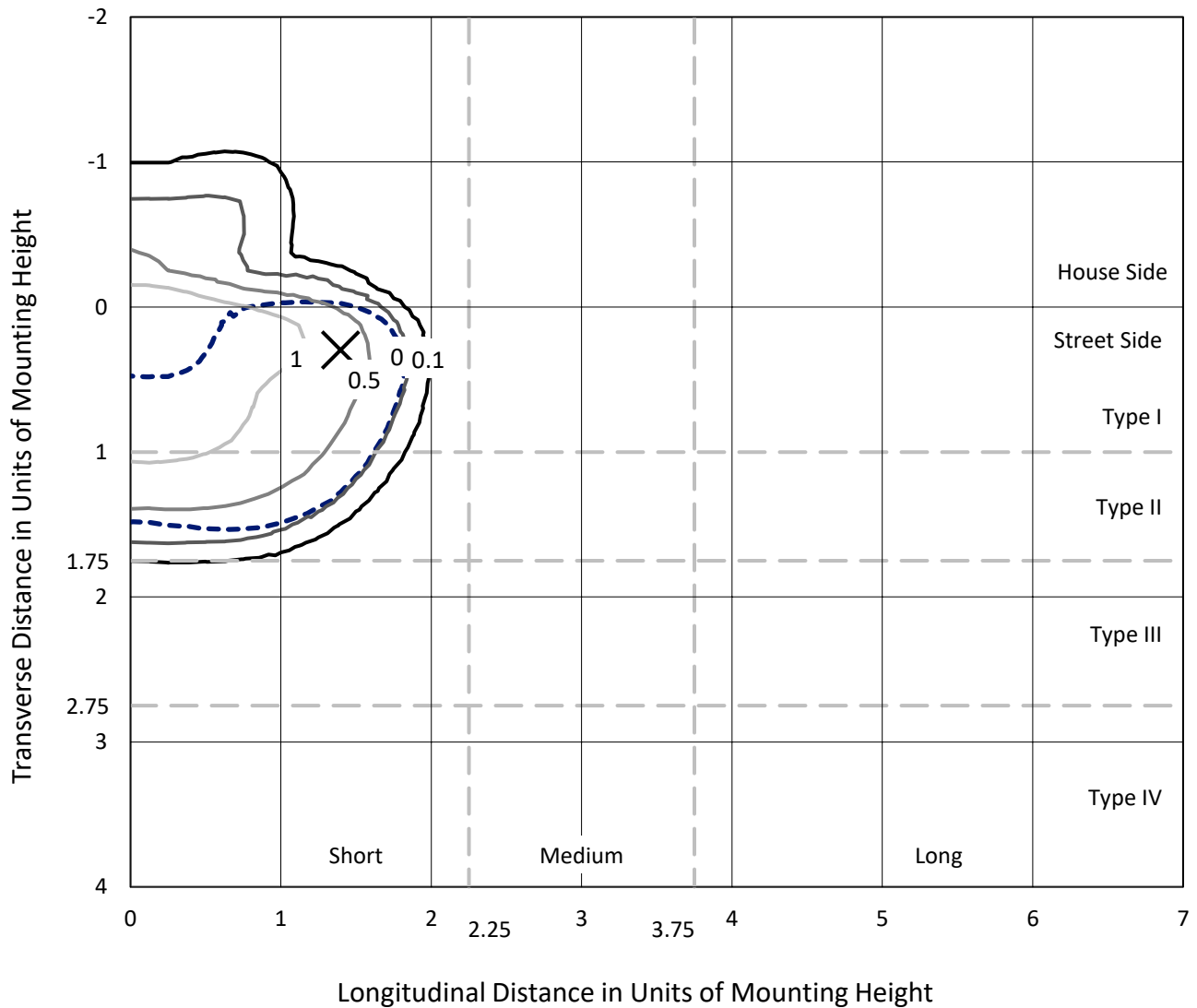
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

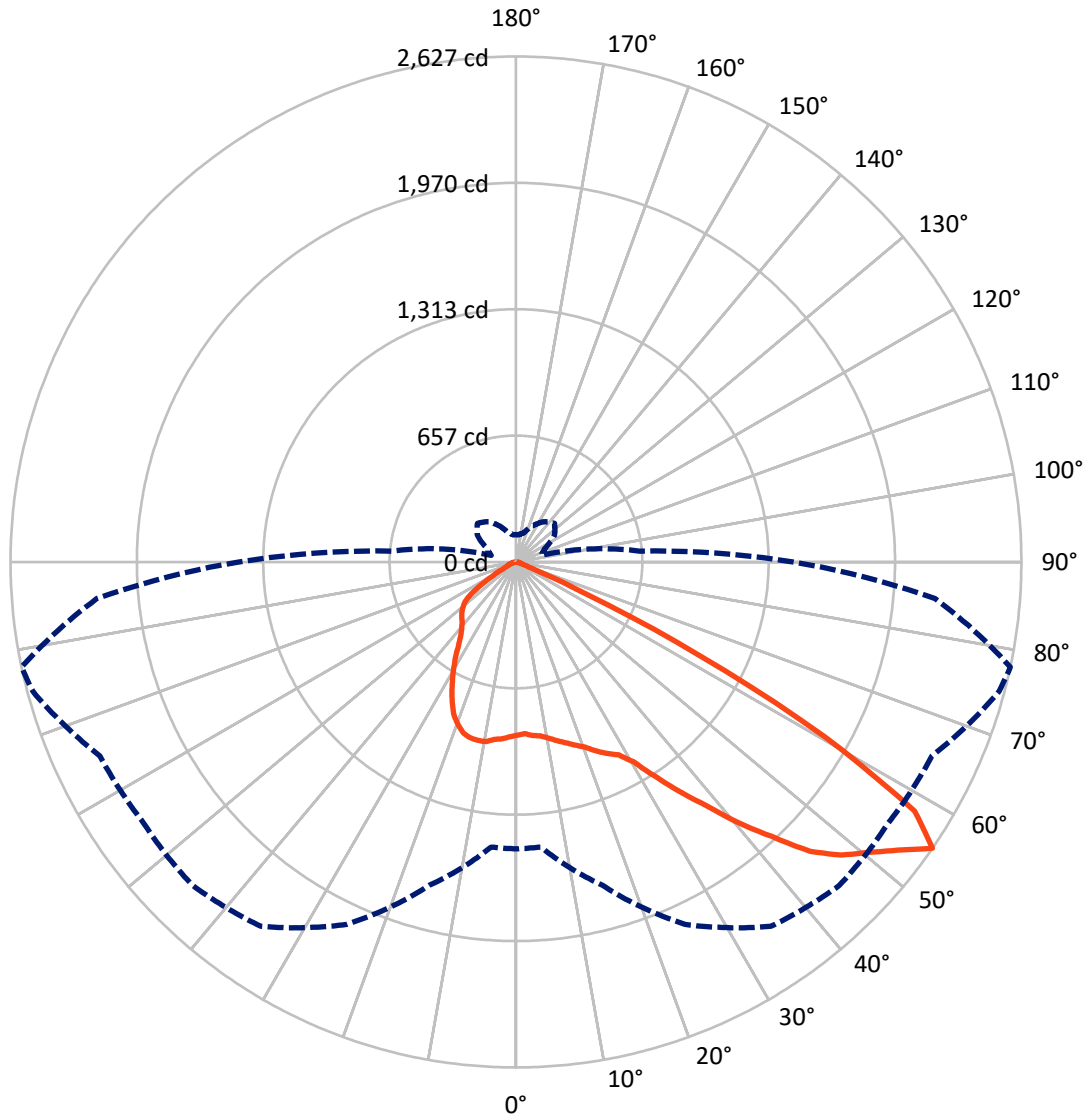
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	650.5	0.0	650.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2851.6	0.0	2851.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	3502.0	0.0	3502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	2.3
10°-20°	212.5	6.1
20°-30°	372.4	10.6
30°-40°	614.1	17.5
40°-50°	893.6	25.5
50°-60°	1012.5	28.9
60°-70°	289.5	8.3
70°-80°	22.5	0.6
80°-90°	4.7	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°	3502.0	100.0
0°-180°	3502.0	100.0

Coefficient of Utilization



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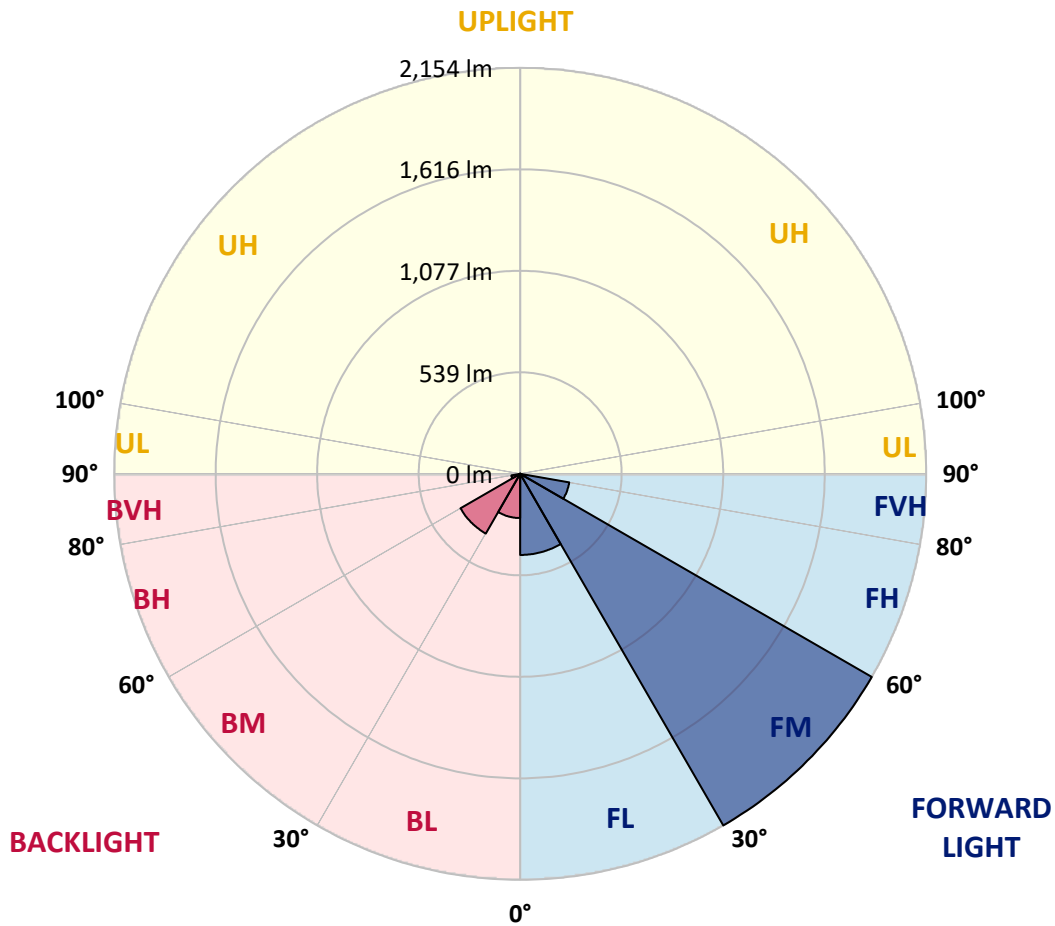
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	430.5	12.3			
FM (30°-60°)	2154.3	61.5			
FH (60°-80°)	264.5	7.6			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	234.7	6.7	B1/500		
BM (30°-60°)	365.9	10.4	B1/1000		
BH (60°-80°)	47.5	1.4	B0/110		G0/110
BVH (80°-90°)	2.4	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°	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4
2.5°	846.5	854.7	855.9	865.9	865.3	882.2	887.2	887.8	899.1	893.5	907.9
5°	822.7	818.3	816.5	834.0	839.0	854.0	866.6	874.1	897.2	905.4	920.4
7.5°	801.4	801.4	802.7	818.3	816.5	835.9	849.0	872.2	906.0	912.9	931.0
10°	780.8	773.3	782.7	798.9	812.7	821.5	849.0	870.9	910.4	930.4	955.5
12.5°	770.1	773.9	775.1	787.0	802.1	828.4	843.4	879.7	941.7	953.6	980.5
15°	837.1	829.6	811.5	800.8	813.3	825.9	863.4	900.4	958.0	974.9	1004.9
17.5°	914.8	908.5	893.5	864.7	836.5	859.7	889.1	922.9	975.5	1000.5	1045.0
20°	1016.2	1006.2	991.2	934.8	910.4	885.3	916.6	956.7	1004.3	1026.8	1072.6
22.5°	1137.0	1137.0	1103.2	1035.0	984.3	960.5	973.6	996.8	1036.2	1066.9	1112.0
25°	1262.9	1259.1	1228.5	1157.7	1071.9	1043.7	1058.8	1075.1	1085.7	1102.6	1132.7
27.5°	1406.9	1385.0	1346.2	1267.9	1192.1	1137.7	1153.9	1139.5	1126.4	1135.2	1178.4
30°	1504.6	1518.4	1468.9	1393.8	1322.4	1261.6	1264.8	1252.2	1192.1	1204.7	1230.3
32.5°	1606.0	1614.8	1587.2	1545.9	1474.5	1403.8	1378.1	1367.5	1322.4	1328.0	1303.0
35°	1690.5	1707.4	1683.0	1664.9	1644.2	1587.2	1516.5	1550.9	1478.3	1464.5	1399.4
37.5°	1768.2	1763.2	1792.0	1773.2	1768.8	1728.7	1651.1	1658.0	1609.1	1606.0	1530.9
40°	1837.7	1838.9	1878.4	1887.1	1869.6	1798.2	1685.5	1740.0	1779.4	1783.2	1686.8
42.5°	1895.3	1912.2	1946.0	2016.7	1990.4	1871.5	1721.2	1780.7	1927.2	1950.4	1834.5
45°	1945.4	1979.8	2021.8	2085.0	2070.0	1975.4	1810.1	1864.6	2085.0	2145.7	1973.5
47.5°	1948.5	1993.6	2039.3	2133.2	2152.0	2031.1	1902.2	1997.3	2210.2	2276.0	2075.0
50°	1936.0	1959.8	2051.2	2153.2	2195.8	2121.9	2031.1	2108.8	2331.7	2373.0	2126.3
52.5°	1787.6	1805.7	1989.2	2172.0	2274.7	2224.6	2202.1	2264.1	2455.7	2486.3	2174.5
55°	1490.2	1487.0	1739.4	2077.5	2311.0	2376.8	2363.0	2384.9	2599.0	2626.6	2186.4
57.5°	1019.3	1076.3	1294.2	1730.0	2088.7	2341.1	2355.5	2319.2	2431.9	2442.5	1905.9
60°	549.7	573.5	748.8	1154.6	1590.4	1907.8	1945.4	1879.6	1870.9	1840.8	1360.6
62.5°	218.5	230.4	330.0	571.7	866.6	1159.6	1240.4	1213.4	1155.8	1076.9	704.4
65°	103.9	111.5	164.0	267.4	384.4	483.4	564.1	589.2	434.5	391.3	232.3
67.5°	70.8	76.4	119.6	152.8	137.1	143.4	186.6	173.4	102.1	87.0	64.5
70°	53.8	57.6	95.8	103.9	61.4	43.2	48.2	45.1	42.0	42.6	42.0
72.5°	38.2	41.3	70.1	61.4	26.9	20.0	25.7	30.7	30.7	30.7	30.1
75°	23.2	26.3	40.7	23.8	10.6	10.6	16.3	20.7	21.9	22.5	21.3
77.5°	11.9	15.0	13.8	6.9	6.9	8.1	11.9	14.4	15.7	15.7	15.0
80°	2.5	2.5	2.5	3.8	6.9	8.8	11.9	13.1	15.0	15.0	13.8
82.5°	0.0	0.6	1.9	3.8	6.3	8.1	11.3	13.1	15.0	15.7	14.4
85°	0.0	0.6	1.3	2.5	4.4	5.0	4.4	3.8	3.8	3.8	3.8
87.5°	0.0	0.0	0.6	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3
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°	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4	900.4
2.5°	909.1	911.0	907.9	907.3	904.7	912.3	894.1	889.7	901.0	890.3	892.9
5°	921.0	925.4	919.8	910.4	896.6	875.3	857.2	833.4	822.1	814.0	812.7
7.5°	929.8	932.9	927.3	897.2	855.9	802.1	762.0	732.6	709.4	702.5	691.2
10°	965.5	966.1	937.9	871.6	790.8	720.0	658.7	613.6	590.4	576.0	569.8
12.5°	989.3	988.0	931.0	820.8	713.2	619.2	549.1	494.6	473.3	466.5	462.1
15°	1019.3	1012.4	914.8	768.9	613.0	511.5	448.3	410.7	408.9	404.5	408.9
17.5°	1043.1	1023.7	891.0	674.3	517.2	421.4	380.1	382.6	387.6	392.0	392.6
20°	1081.9	1041.9	836.5	591.7	428.3	361.3	360.6	371.9	384.4	389.4	394.5
22.5°	1111.4	1049.4	778.3	503.4	355.6	336.9	347.5	364.4	373.8	378.8	386.3
25°	1122.0	1028.7	700.6	415.1	320.6	325.6	341.9	353.1	365.0	370.7	367.5
27.5°	1132.7	1018.1	608.0	341.9	301.8	318.1	331.8	343.1	346.9	354.4	359.4
30°	1158.3	981.1	524.7	295.5	292.4	313.1	323.1	326.8	336.9	341.2	341.2
32.5°	1179.0	966.7	436.4	273.6	291.1	315.6	316.8	316.8	318.1	314.9	313.7
35°	1221.6	917.3	357.5	260.5	290.5	316.2	319.3	308.7	279.9	268.6	265.5
37.5°	1274.2	885.3	299.3	257.3	294.9	323.7	328.7	288.6	251.1	232.9	229.8
40°	1338.0	862.8	261.1	256.1	304.9	341.2	326.2	273.0	224.2	197.9	196.6
42.5°	1412.5	842.1	235.4	255.5	317.4	359.4	323.7	259.8	196.6	179.1	181.6
45°	1472.0	830.9	217.9	251.1	321.8	370.0	325.6	236.7	185.3	174.1	175.3
47.5°	1518.4	807.1	203.5	243.6	321.2	373.8	308.7	227.3	179.7	182.8	186.0
50°	1519.6	775.1	185.3	227.3	311.8	366.9	289.3	218.5	178.4	191.6	197.9
52.5°	1502.7	730.1	165.9	204.1	289.9	343.1	271.7	214.8	172.8	171.6	179.1
55°	1442.6	645.5	133.4	165.3	244.8	283.0	256.1	207.9	155.9	141.5	142.8
57.5°	1165.8	462.7	98.3	118.3	173.4	207.2	231.0	204.7	140.3	120.2	120.8
60°	721.9	262.3	72.0	80.8	107.1	125.9	187.2	190.3	125.2	101.4	100.2
62.5°	370.7	129.6	55.7	57.0	65.7	73.9	128.4	159.7	113.3	96.4	96.4
65°	124.0	63.9	48.8	43.8	43.8	45.7	77.6	110.8	95.8	80.8	80.8
67.5°	53.2	47.6	42.6	38.2	35.1	33.2	43.8	64.5	71.4	61.4	58.9
70°	41.3	40.1	36.9	31.9	27.5	25.0	25.7	33.2	40.7	39.4	38.2
72.5°	30.7	30.7	29.4	25.0	21.3	18.2	16.9	17.5	19.4	20.0	20.7
75°	21.3	21.9	21.9	19.4	15.7	13.1	11.3	9.4	7.5	6.3	5.6
77.5°	14.4	15.0	16.3	14.4	11.9	8.8	6.9	5.0	3.1	1.3	1.3
80°	12.5	14.4	15.7	14.4	12.5	9.4	6.9	3.8	1.9	0.0	0.0
82.5°	13.1	14.4	16.3	13.8	11.9	8.8	6.9	4.4	1.9	0.6	0.0
85°	3.1	3.1	3.8	4.4	5.6	6.3	5.0	3.1	1.9	0.6	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	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)