

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: P526289

Luminaire Tested: **GALN-SA1B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2841 lumens
Efficiency: N/A
Efficacy: 64.6 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

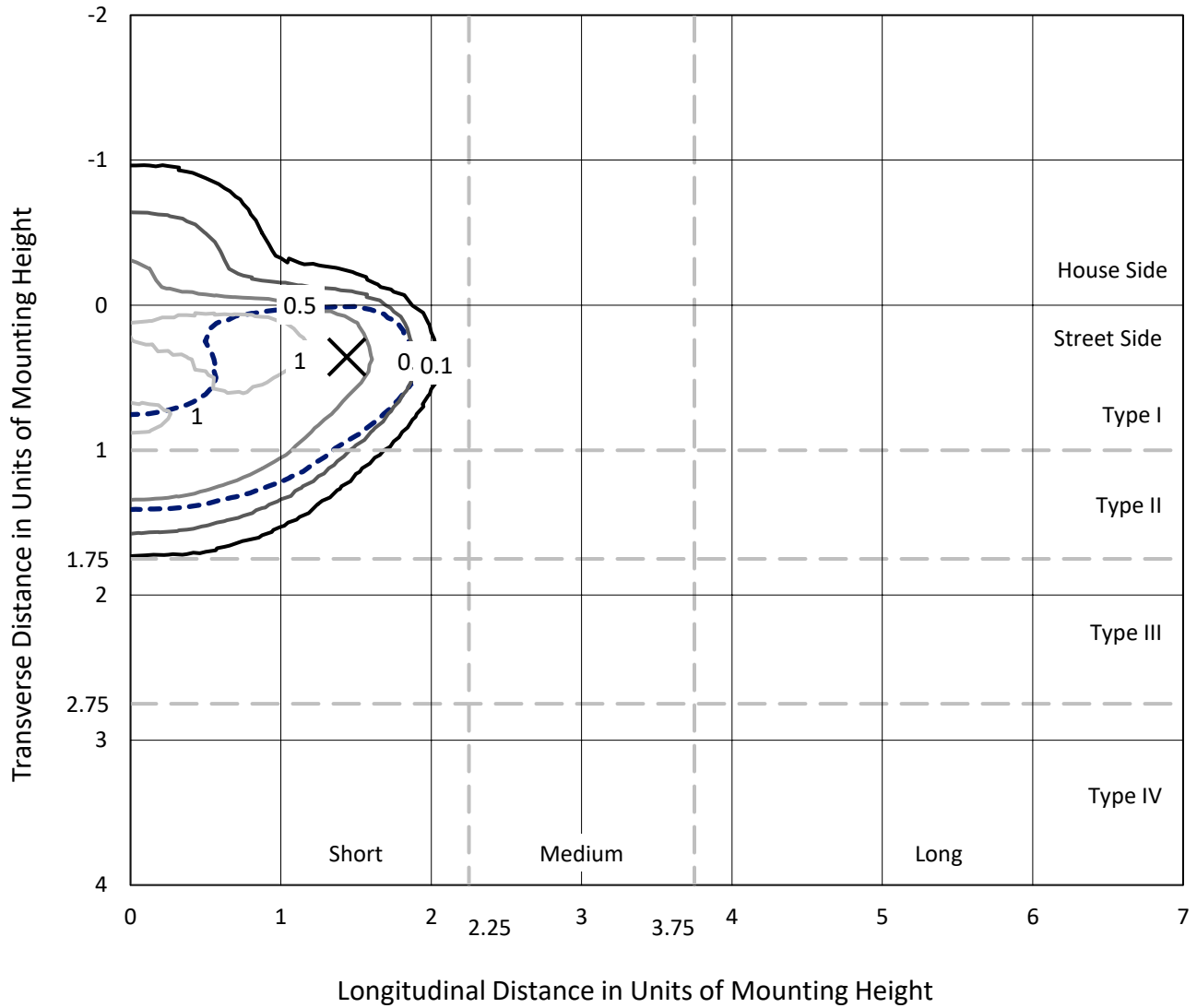
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

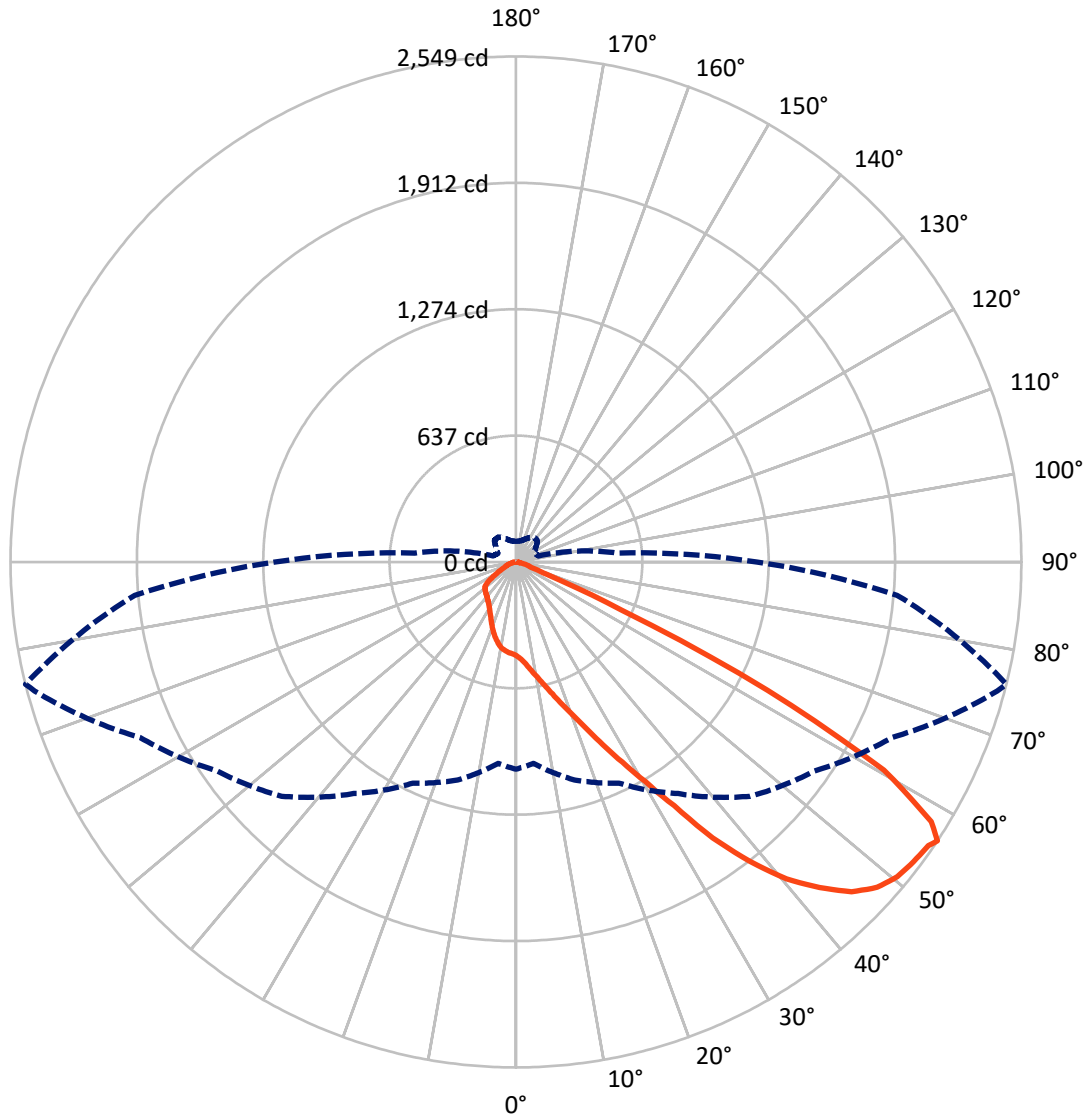
✕ Max cd
 - - - 1/2 Max cd



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 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	446.3	0.0	446.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2394.7	0.0	2394.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	2841.0	0.0	2841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.7
10°-20°	153.0	5.4
20°-30°	277.5	9.8
30°-40°	478.6	16.8
40°-50°	777.4	27.4
50°-60°	819.5	28.8
60°-70°	250.4	8.8
70°-80°	32.1	1.1
80°-90°	4.9	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°	2841.0	100.0
0°-180°	2841.0	100.0

Coefficient of Utilization

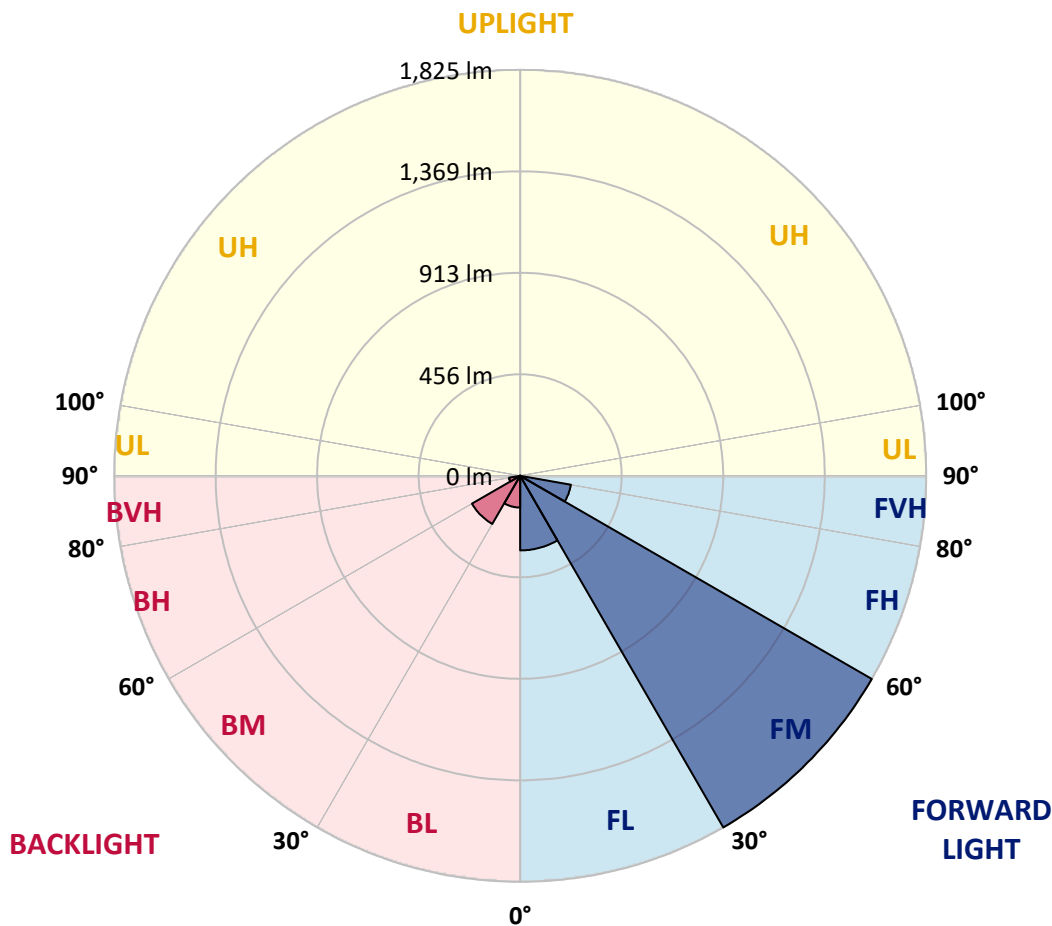


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.4	11.8			
FM (30°-60°)	1825.3	64.3			
FH (60°-80°)	231.6	8.2			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	142.8	5.0	B1/500		
BM (30°-60°)	250.1	8.8	B1/1000		
BH (60°-80°)	50.9	1.8	B0/110		G0/110
BVH (80°-90°)	2.5	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°	76°	85°
0°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	544.6	532.1	532.6	531.5	530.0	524.2	506.9	504.3	492.8	489.6	479.2
5°	610.1	599.1	605.4	596.0	587.1	581.8	553.5	540.4	522.1	515.3	500.6
7.5°	650.9	645.7	643.6	644.1	635.8	622.7	610.1	581.3	556.7	551.4	520.5
10°	670.8	667.7	670.8	669.3	672.9	674.5	652.5	635.2	599.1	590.2	542.0
12.5°	675.6	681.8	684.5	691.3	700.2	715.4	713.8	690.2	642.0	636.3	575.0
15°	687.1	692.3	689.7	700.7	717.5	743.1	756.7	753.1	701.2	690.7	613.2
17.5°	697.6	688.1	697.0	719.0	735.8	775.1	808.0	823.2	765.6	753.6	648.3
20°	711.7	709.1	707.5	718.5	748.3	800.7	866.2	893.9	837.9	825.3	698.6
22.5°	754.6	755.2	754.1	737.9	759.3	818.5	917.0	985.6	924.3	913.8	755.7
25°	811.2	804.4	799.1	786.1	783.4	834.8	968.3	1097.6	1028.0	1020.7	817.5
27.5°	870.9	870.9	855.2	843.1	826.4	875.1	1015.4	1206.6	1153.2	1143.2	871.4
30°	935.8	939.5	937.4	911.7	901.3	919.1	1063.6	1345.9	1296.6	1284.1	960.4
32.5°	1031.7	1023.8	1032.7	1011.2	980.3	996.1	1139.5	1470.5	1483.1	1465.3	1077.2
35°	1158.4	1153.7	1147.9	1112.8	1076.2	1088.7	1246.9	1624.0	1717.2	1708.3	1195.1
37.5°	1272.0	1269.4	1264.7	1240.6	1198.2	1213.4	1368.9	1783.7	1945.5	1916.2	1361.6
40°	1391.4	1405.6	1390.4	1368.9	1330.2	1363.7	1512.4	1878.5	2137.7	2102.1	1488.8
42.5°	1553.3	1542.3	1549.1	1509.8	1488.8	1525.5	1656.4	1973.2	2286.9	2244.5	1624.0
45°	1725.5	1726.1	1707.7	1695.2	1640.7	1680.5	1744.9	2025.6	2405.8	2372.8	1726.1
47.5°	1836.0	1835.5	1855.4	1875.3	1819.3	1780.0	1805.1	2075.4	2467.1	2451.9	1763.3
50°	1818.8	1824.0	1849.7	1924.0	1953.3	1900.5	1861.7	2060.7	2494.8	2493.3	1795.2
52.5°	1582.1	1599.3	1642.3	1749.6	1897.3	1962.8	1920.9	2087.9	2508.5	2511.1	1842.9
55°	1204.5	1213.9	1295.6	1426.0	1589.4	1813.5	1897.3	2109.4	2518.9	2523.6	1900.5
56°	1044.8	1019.6	1137.4	1230.1	1425.5	1670.6	1837.6	2092.7	2512.6	2548.8	1929.3
57.5°	788.7	771.9	867.2	983.0	1171.0	1429.7	1652.2	2013.6	2470.2	2469.7	1887.9
60°	479.7	462.9	536.3	604.3	709.6	880.3	1116.5	1603.5	2088.5	2132.5	1528.6
62.5°	285.4	295.9	368.2	409.5	443.6	461.4	577.6	953.1	1393.5	1425.0	948.4
65°	190.1	193.8	248.2	316.3	331.5	263.9	235.1	386.0	604.3	585.0	391.2
67.5°	117.3	125.7	166.5	237.8	263.4	192.7	111.5	144.0	166.5	166.5	113.1
70°	71.2	75.4	111.0	161.8	180.7	124.1	81.2	81.2	80.1	78.6	67.6
72.5°	34.0	36.7	56.6	83.3	84.8	65.5	62.8	68.6	67.0	66.5	56.0
75°	14.7	15.7	19.9	26.2	29.9	27.8	38.2	49.2	50.8	49.2	40.3
77.5°	4.7	5.2	7.3	9.4	10.0	12.0	16.2	20.4	23.6	22.0	19.9
80°	0.5	1.0	2.1	4.7	7.3	9.4	12.0	13.6	15.2	15.2	14.1
82.5°	0.5	0.5	2.1	4.2	6.8	8.9	11.5	13.1	15.2	15.7	14.7
85°	0.0	0.5	1.6	3.7	5.8	5.8	5.2	5.2	3.7	3.7	3.7
87.5°	0.0	0.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	477.1	476.0	461.9	453.0	448.3	438.8	433.1	428.9	425.8	422.1	422.6
5°	483.4	479.7	456.1	439.9	420.5	410.0	401.1	393.8	389.1	388.1	386.0
7.5°	501.2	481.8	446.2	416.9	392.2	381.8	373.9	369.2	371.3	366.6	370.2
10°	514.8	486.0	434.1	391.7	367.1	359.2	355.1	358.7	364.0	361.9	359.2
12.5°	531.5	490.2	414.8	367.6	344.6	338.8	346.2	353.0	363.4	367.6	362.4
15°	550.4	494.9	390.1	339.9	325.2	329.9	342.5	354.5	365.0	370.2	373.4
17.5°	573.4	493.3	366.1	317.9	306.9	320.5	335.7	346.7	362.4	370.2	368.2
20°	594.9	488.1	339.3	295.9	296.4	309.0	321.5	339.3	347.7	358.2	354.5
22.5°	615.3	478.6	311.6	280.7	280.7	300.1	306.4	317.9	325.2	330.4	329.9
25°	644.1	460.8	288.6	266.0	272.3	284.9	290.1	293.8	290.6	294.8	295.4
27.5°	664.6	442.5	269.7	252.9	264.5	273.9	272.3	270.2	262.9	257.1	260.8
30°	686.6	421.0	253.5	244.0	250.3	258.7	252.4	246.1	234.6	225.2	225.7
32.5°	718.0	411.1	239.3	233.6	241.9	243.0	236.2	226.8	215.2	206.3	205.8
35°	776.6	404.8	227.3	226.8	228.3	228.9	222.0	210.5	205.8	198.5	201.1
37.5°	835.3	401.7	218.9	216.8	216.3	216.8	209.0	198.0	206.9	206.3	207.4
40°	910.2	415.8	206.9	204.2	204.8	204.8	194.8	191.7	207.4	209.0	209.5
42.5°	986.1	433.6	199.0	190.6	192.7	192.7	187.5	183.8	194.8	184.3	182.8
45°	1052.1	459.8	190.6	177.0	182.2	184.9	183.3	177.0	170.2	152.4	152.4
47.5°	1073.6	482.8	180.7	163.9	168.1	179.6	174.9	161.8	149.8	135.1	134.1
50°	1111.3	508.0	172.8	148.7	157.6	171.8	167.1	154.0	140.3	129.9	130.4
52.5°	1150.0	536.8	158.2	130.9	141.9	165.5	165.5	150.8	129.9	122.5	121.5
55°	1208.1	535.7	132.0	107.4	126.7	156.1	158.7	135.1	116.3	110.5	110.5
56°	1216.5	511.6	118.9	100.5	119.9	153.4	154.0	130.9	111.0	104.7	104.7
57.5°	1153.7	461.9	104.2	92.2	111.5	148.7	149.3	127.3	106.8	97.9	96.9
60°	887.6	312.6	86.9	82.2	101.1	134.1	136.7	115.7	93.7	86.9	86.4
62.5°	501.2	173.3	76.5	74.4	86.9	114.2	122.0	101.1	79.6	75.9	77.0
65°	228.9	95.3	64.4	60.2	70.2	88.0	98.5	83.3	65.5	61.3	61.3
67.5°	83.8	64.9	55.0	47.7	49.2	57.1	63.9	53.9	43.5	37.2	38.8
70°	59.7	54.5	48.2	41.4	38.2	37.2	36.7	30.4	21.5	16.8	17.8
72.5°	48.2	45.0	40.3	35.1	29.9	25.1	21.5	15.7	10.0	6.8	6.3
75°	34.6	33.0	29.3	25.1	20.9	17.8	14.7	10.0	5.2	2.6	2.6
77.5°	17.8	17.8	17.3	15.7	13.1	10.5	8.4	5.8	3.1	1.0	1.0
80°	13.6	14.7	15.2	13.6	12.0	9.4	6.8	4.2	2.1	0.5	0.5
82.5°	13.1	15.2	16.2	14.1	12.0	8.9	6.8	4.2	2.1	0.5	0.5
85°	3.1	3.1	4.7	5.2	6.8	7.3	5.8	3.7	1.6	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	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)