

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: P526342

Luminaire Tested: **GALN-SA1B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4499 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

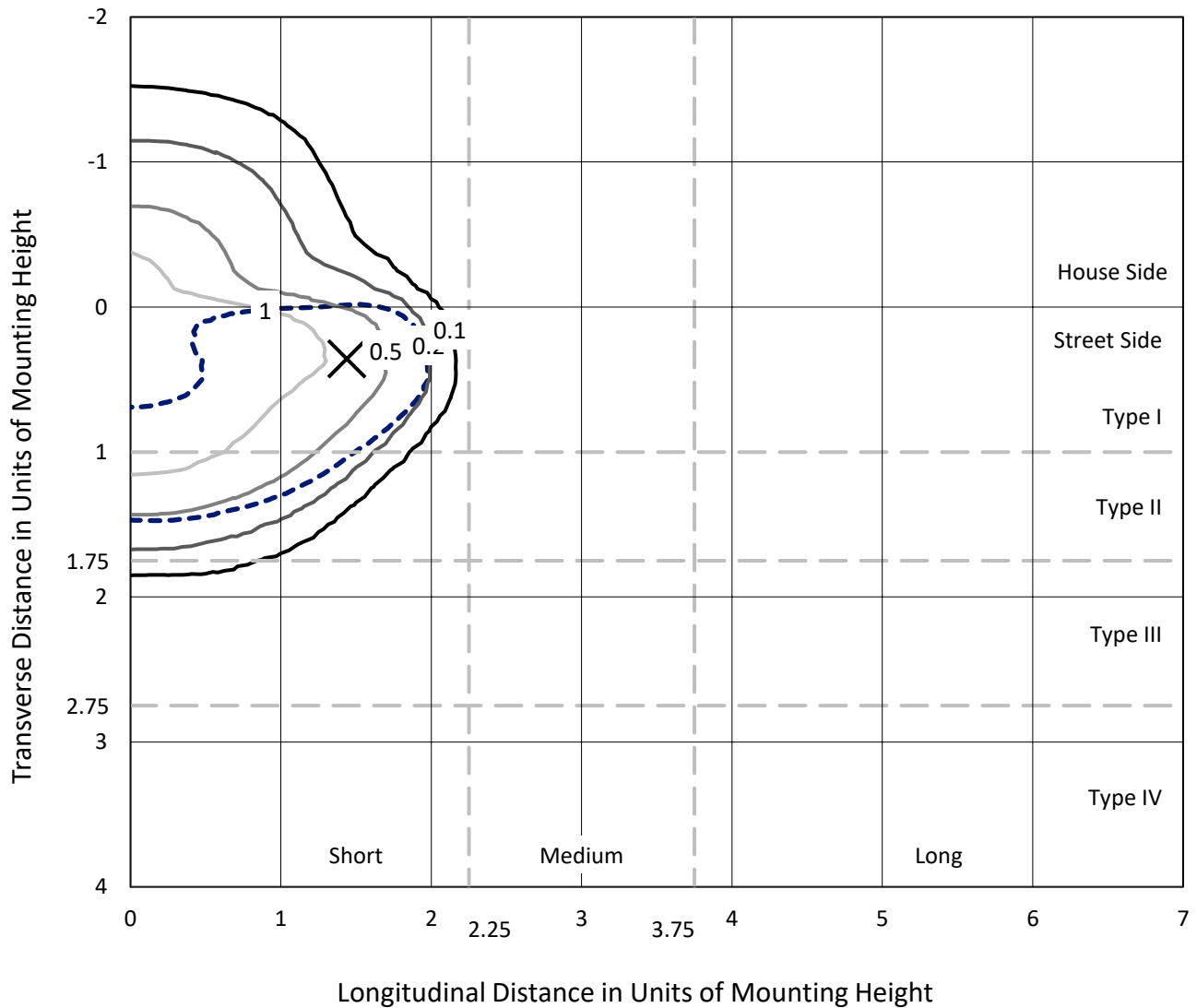
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

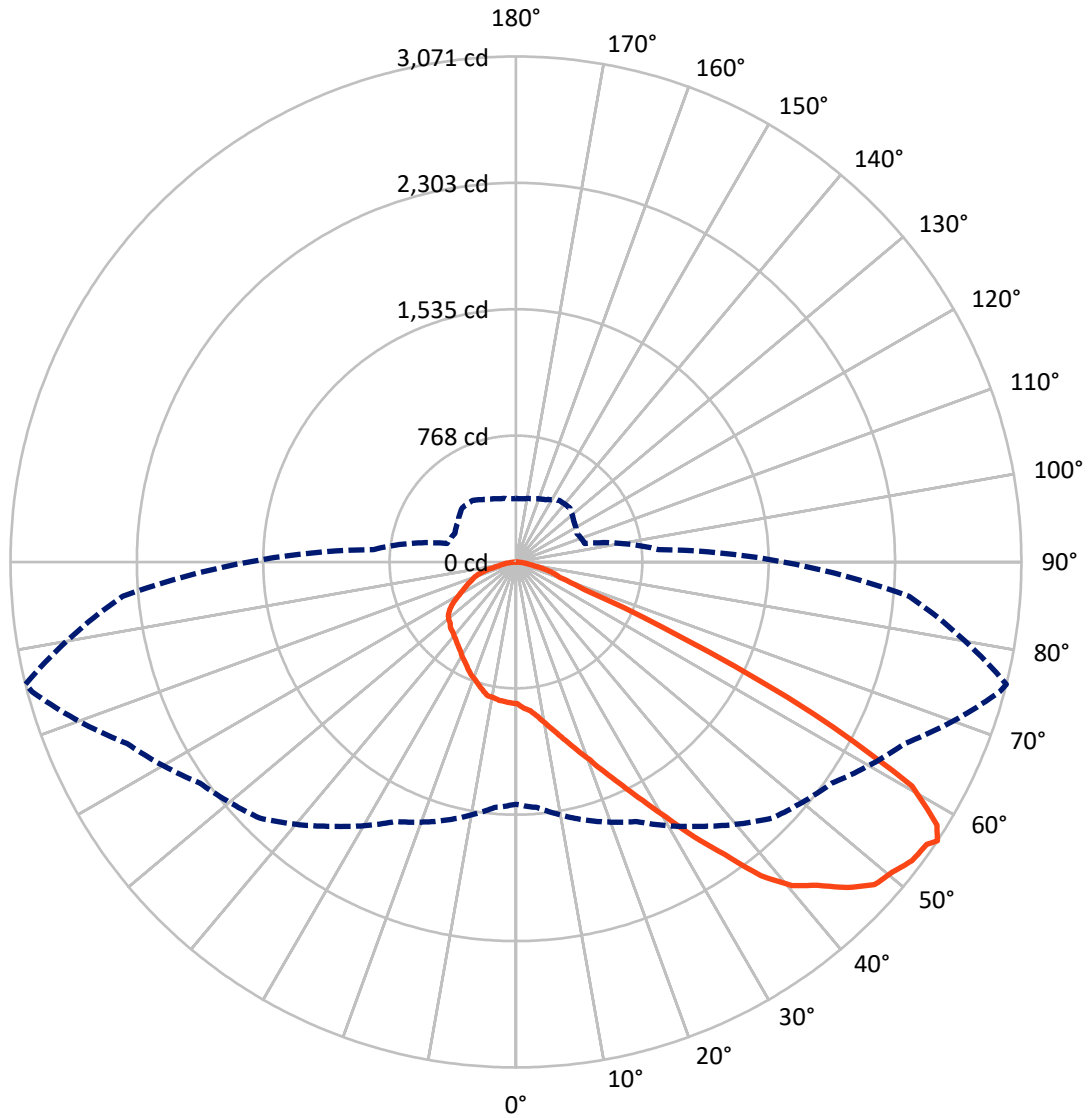
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	1209.6	0.0	1209.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	3289.4	0.0	3289.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	4499.0	0.0	4499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.9
10°-20°	268.2	6.0
20°-30°	469.0	10.4
30°-40°	734.3	16.3
40°-50°	1068.2	23.7
50°-60°	1174.0	26.1
60°-70°	524.0	11.6
70°-80°	151.4	3.4
80°-90°	24.5	0.5
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°	4499.0	100.0
0°-180°	4499.0	100.0

Coefficient of Utilization



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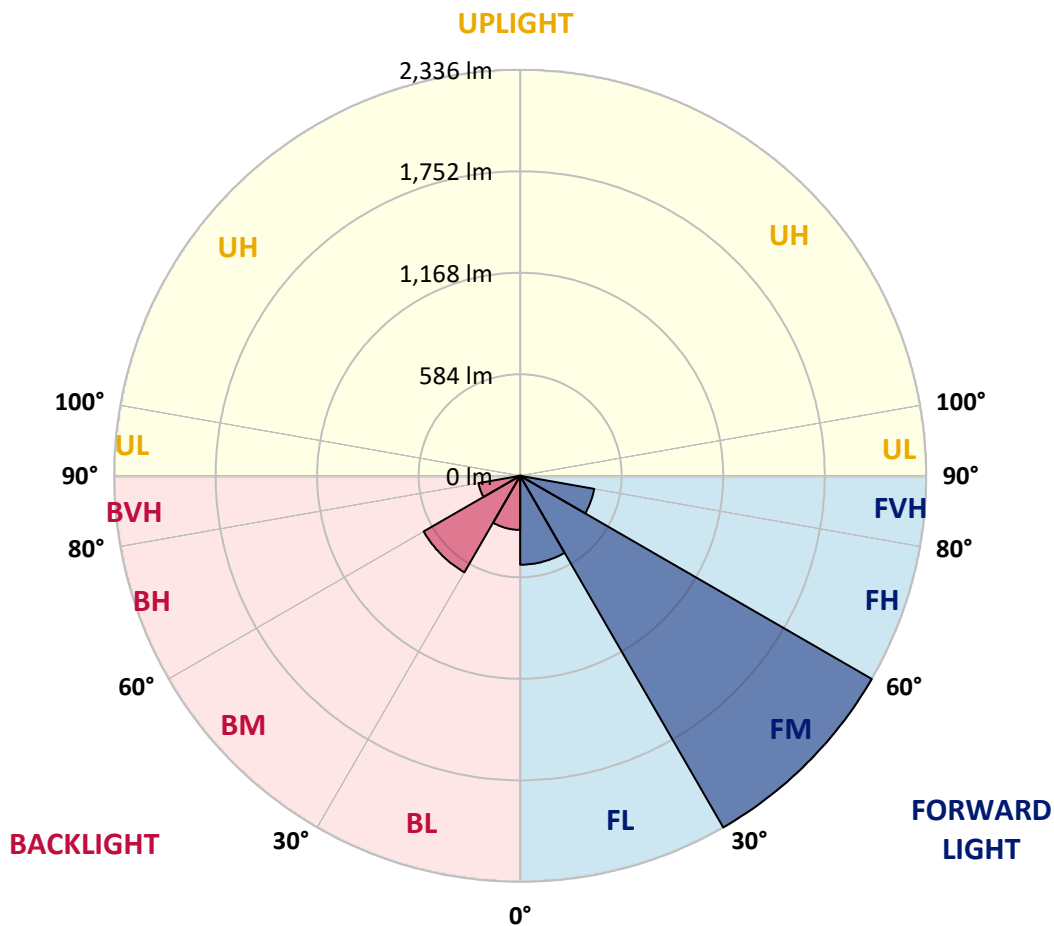
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.3	11.4			
FM (30°-60°)	2335.5	51.9			
FH (60°-80°)	432.0	9.6			G0/660
FVH (80°-90°)	10.6	0.2			G1/100
BL (0°-30°)	311.3	6.9	B1/500		
BM (30°-60°)	641.0	14.2	B1/1000		
BH (60°-80°)	243.4	5.4	B1/500		G1/500
BVH (80°-90°)	14.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8
2.5°	948.3	933.1	932.0	927.9	930.2	919.7	908.6	894.1	878.9	888.2	866.1
5°	1014.8	994.4	1002.5	988.6	990.3	976.3	953.6	936.6	918.0	906.9	891.2
7.5°	1038.1	1039.9	1045.7	1043.4	1031.7	1031.7	1016.5	986.8	954.1	947.7	921.5
10°	1069.6	1070.2	1063.8	1065.5	1081.9	1074.3	1060.9	1048.0	1006.0	998.5	951.8
12.5°	1080.7	1070.2	1080.7	1090.0	1109.3	1119.8	1116.9	1107.5	1062.6	1057.4	989.1
15°	1082.4	1076.0	1084.8	1105.8	1122.7	1167.0	1189.2	1182.8	1123.3	1123.9	1031.1
17.5°	1074.3	1083.0	1086.5	1104.6	1143.7	1185.1	1249.2	1258.0	1209.0	1201.4	1084.2
20°	1085.4	1078.9	1083.6	1099.9	1151.9	1216.6	1300.6	1358.3	1289.5	1284.2	1139.0
22.5°	1127.9	1119.2	1118.0	1128.5	1165.8	1232.9	1354.8	1458.6	1387.5	1390.4	1207.3
25°	1161.2	1165.8	1161.8	1161.2	1184.5	1257.4	1426.5	1578.2	1520.4	1503.5	1287.7
27.5°	1218.3	1229.4	1221.3	1232.3	1227.1	1294.2	1477.9	1710.6	1663.9	1641.2	1360.6
30°	1297.7	1303.5	1295.9	1295.9	1280.2	1345.5	1524.5	1848.8	1829.5	1798.6	1446.4
32.5°	1402.0	1410.8	1395.6	1386.9	1384.6	1421.9	1608.5	1985.3	2017.9	1991.7	1560.1
35°	1540.3	1535.0	1516.9	1508.8	1477.3	1539.1	1733.3	2142.2	2227.9	2181.2	1697.7
37.5°	1662.2	1654.0	1652.8	1607.3	1614.9	1665.7	1839.5	2261.1	2431.4	2418.0	1843.0
40°	1775.9	1783.5	1795.7	1770.1	1758.4	1814.4	1963.1	2352.1	2589.5	2584.2	1954.9
42.5°	1897.8	1890.8	1912.4	1890.8	1873.3	1952.6	2097.2	2415.1	2728.3	2685.1	2072.2
45°	2074.5	2052.3	2059.9	2061.7	2048.8	2078.0	2152.6	2460.6	2825.7	2821.0	2157.9
47.5°	2222.1	2222.6	2209.8	2199.9	2160.8	2190.0	2214.5	2489.2	2937.7	2930.1	2191.1
50°	2276.9	2269.3	2306.6	2328.2	2330.5	2271.0	2262.9	2504.9	2996.6	2963.3	2224.4
52.5°	2079.7	2086.7	2145.6	2274.0	2348.0	2354.4	2319.4	2537.6	3020.5	3013.5	2251.2
55°	1673.8	1707.7	1804.5	1952.6	2128.2	2321.2	2380.7	2571.4	3033.3	3027.5	2370.2
56°	1471.5	1497.7	1623.7	1739.7	1960.2	2200.5	2342.2	2607.6	3043.2	3070.6	2398.2
57.5°	1184.5	1214.8	1305.2	1437.0	1697.2	1970.7	2236.0	2563.2	3004.7	3015.2	2418.6
60°	740.7	743.6	852.1	939.0	1122.1	1389.2	1706.5	2230.2	2780.8	2765.6	2172.5
62.5°	485.8	486.4	585.0	656.1	739.5	800.8	1004.3	1479.0	2051.8	2024.9	1546.7
65°	341.2	348.8	425.2	520.2	554.1	522.0	515.6	779.8	1146.0	1107.5	831.1
67.5°	249.6	250.2	317.9	419.9	468.9	397.2	322.5	380.8	453.7	452.6	384.9
70°	165.0	172.0	224.0	313.8	369.8	319.0	263.6	272.4	288.7	288.7	286.4
72.5°	96.2	102.6	137.1	198.9	207.6	199.5	208.8	233.3	243.8	243.2	240.3
75°	54.8	57.7	65.3	82.8	103.2	121.9	153.4	176.7	187.2	193.6	186.0
77.5°	32.1	33.8	38.5	47.2	53.7	65.9	83.4	99.7	113.7	112.0	113.1
80°	16.9	16.9	21.6	28.0	37.3	46.7	55.4	64.7	72.3	74.1	75.8
82.5°	9.9	10.5	14.0	20.4	26.8	33.2	42.6	49.0	56.0	56.6	57.7
85°	5.2	5.8	8.7	13.4	18.1	20.4	21.0	19.8	21.6	20.4	23.3
87.5°	1.7	1.7	2.9	2.3	2.3	2.9	3.5	3.5	4.7	4.7	4.7
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°	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8
2.5°	865.5	865.5	855.6	836.9	834.0	826.4	819.4	818.8	813.6	808.9	806.6
5°	881.8	863.7	849.2	832.2	812.4	803.1	792.6	780.9	776.3	780.9	780.3
7.5°	900.5	885.3	841.6	810.1	787.3	778.0	766.3	754.1	755.3	755.3	747.1
10°	918.6	898.2	828.2	787.9	754.7	747.7	741.3	745.9	751.8	752.9	747.7
12.5°	948.9	902.8	821.8	765.8	744.8	729.6	733.7	746.5	758.8	755.3	759.3
15°	971.6	906.9	792.6	743.0	716.8	723.8	738.4	747.1	767.5	765.2	769.3
17.5°	993.8	909.2	764.0	712.7	701.6	720.9	731.9	757.0	763.4	777.4	782.7
20°	1039.3	913.9	734.9	694.0	690.5	712.7	731.9	743.6	757.6	769.8	769.8
22.5°	1062.6	911.6	715.6	669.5	680.6	694.6	712.1	731.9	731.9	743.6	744.2
25°	1091.8	902.2	685.3	657.9	666.0	679.4	699.3	692.3	699.9	699.9	709.2
27.5°	1125.0	882.4	659.0	636.9	653.2	667.8	670.7	666.0	657.3	656.1	652.6
30°	1151.9	857.9	639.8	629.9	643.3	651.5	642.1	632.2	617.0	615.9	607.7
32.5°	1188.6	827.6	615.9	612.4	627.5	628.1	625.2	610.0	587.9	578.5	569.2
35°	1250.4	810.1	597.8	603.0	607.7	606.0	600.7	584.4	562.2	558.1	554.6
37.5°	1295.9	797.3	579.1	585.5	589.6	592.0	576.2	558.1	558.7	550.6	548.2
40°	1347.2	789.1	564.0	566.9	567.5	575.1	555.8	547.1	551.1	545.9	549.4
42.5°	1413.1	791.4	548.2	545.9	557.0	554.1	544.7	533.1	535.4	519.6	522.0
45°	1448.1	807.2	538.9	528.4	540.6	540.1	527.8	516.7	502.7	472.4	473.6
47.5°	1471.5	811.3	516.7	509.7	522.6	530.1	516.1	490.5	470.7	449.1	443.8
50°	1495.4	818.8	506.2	491.7	496.9	515.0	497.5	473.0	453.7	434.5	437.4
52.5°	1516.4	833.4	485.8	464.2	473.6	493.4	484.1	454.3	433.3	417.6	412.9
55°	1609.7	866.1	451.4	423.4	445.6	470.7	465.4	429.2	406.5	398.3	397.2
56°	1624.3	867.2	433.3	409.4	429.8	463.1	456.7	418.2	397.8	384.9	385.5
57.5°	1626.6	853.2	407.7	396.6	414.1	452.0	443.8	409.4	381.4	369.8	366.3
60°	1431.2	666.0	375.6	368.6	389.0	418.2	415.2	385.5	354.0	340.6	347.0
62.5°	975.7	488.2	350.5	349.3	359.8	388.4	380.8	354.0	327.8	319.0	314.9
65°	568.1	370.3	326.0	321.4	330.1	345.3	350.5	322.5	295.1	289.3	287.5
67.5°	335.3	306.2	294.5	286.9	284.0	293.4	297.4	281.1	253.7	245.5	252.5
70°	280.5	272.4	272.9	260.1	253.1	246.7	243.2	228.6	205.9	195.4	192.5
72.5°	242.0	238.5	236.2	224.5	218.1	203.5	188.4	173.8	156.9	148.1	148.7
75°	184.9	183.7	184.9	179.0	168.0	156.3	142.3	123.6	110.8	99.7	102.1
77.5°	110.2	113.7	115.5	113.1	108.5	98.0	89.2	77.0	64.7	56.0	54.8
80°	75.8	78.7	81.7	78.7	74.1	66.5	57.2	47.8	39.1	34.4	33.2
82.5°	57.7	60.7	62.4	59.5	53.7	45.5	39.1	32.7	25.7	21.0	19.8
85°	21.0	23.9	23.3	28.0	30.3	29.2	25.1	19.2	14.6	10.5	9.9
87.5°	5.8	5.2	5.8	5.8	5.8	5.2	4.7	4.7	4.7	2.9	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

(END OF REPORT)