

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: P526564

Luminaire Tested: **GALN-SA1C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5980 lumens
Efficiency: N/A
Efficacy: 104.9 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

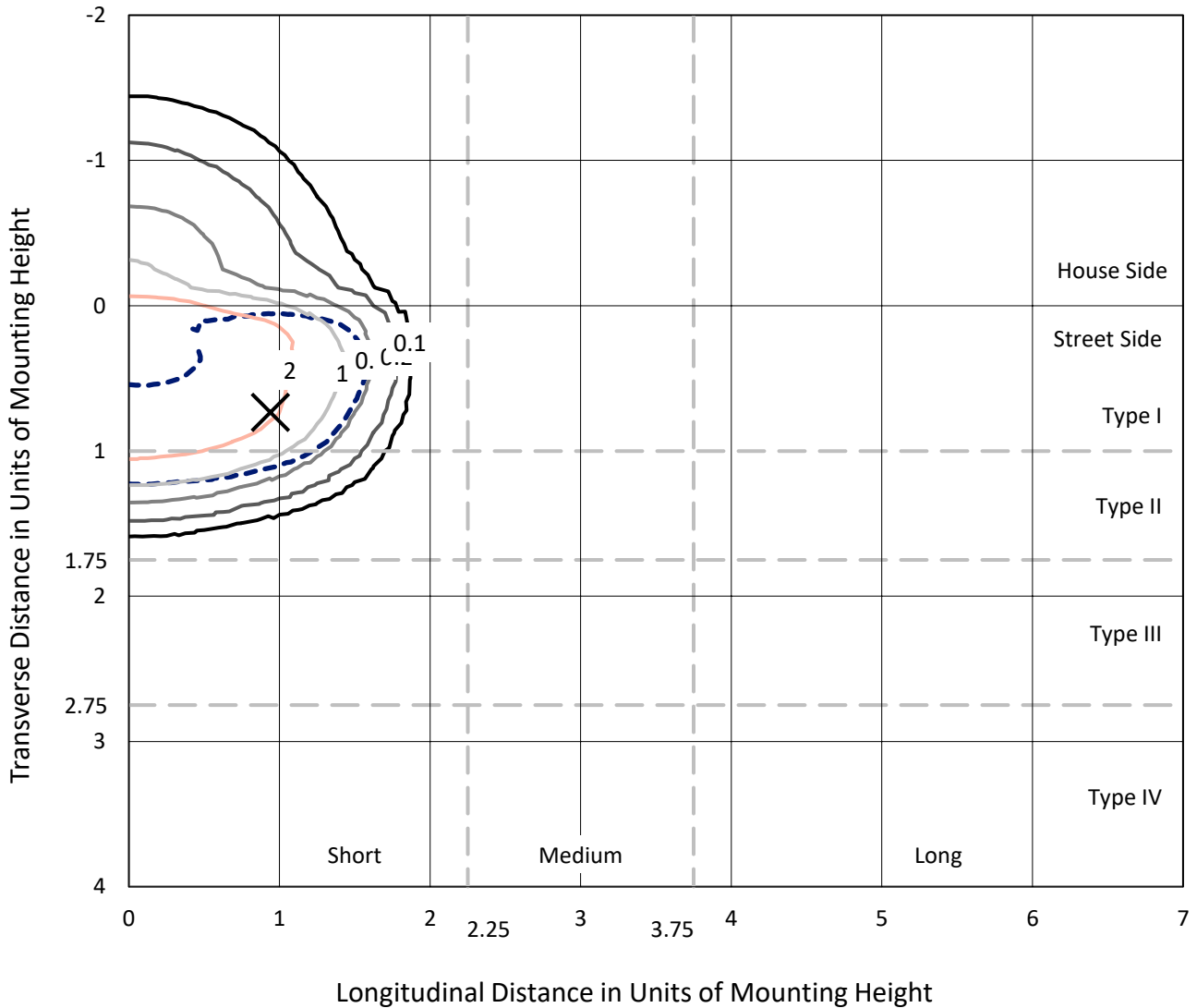
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

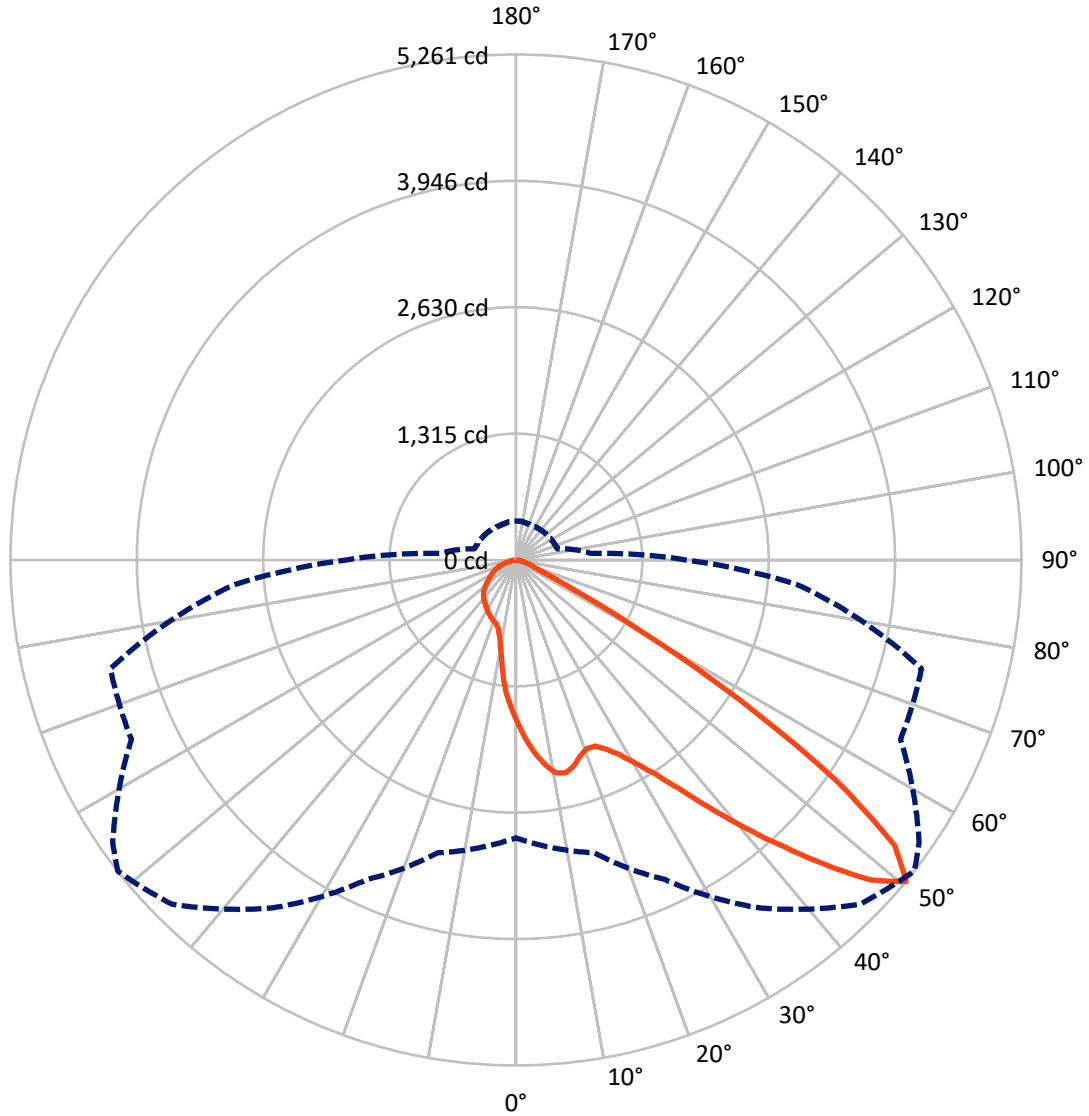
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.1	0.0	1124.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4855.9	0.0	4855.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	5980.0	0.0	5980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	2.6
10°-20°	416.4	7.0
20°-30°	701.4	11.7
30°-40°	1177.1	19.7
40°-50°	1800.7	30.1
50°-60°	1312.8	22.0
60°-70°	292.2	4.9
70°-80°	105.4	1.8
80°-90°	18.7	0.3
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°	5980.0	100.0
0°-180°	5980.0	100.0

Coefficient of Utilization



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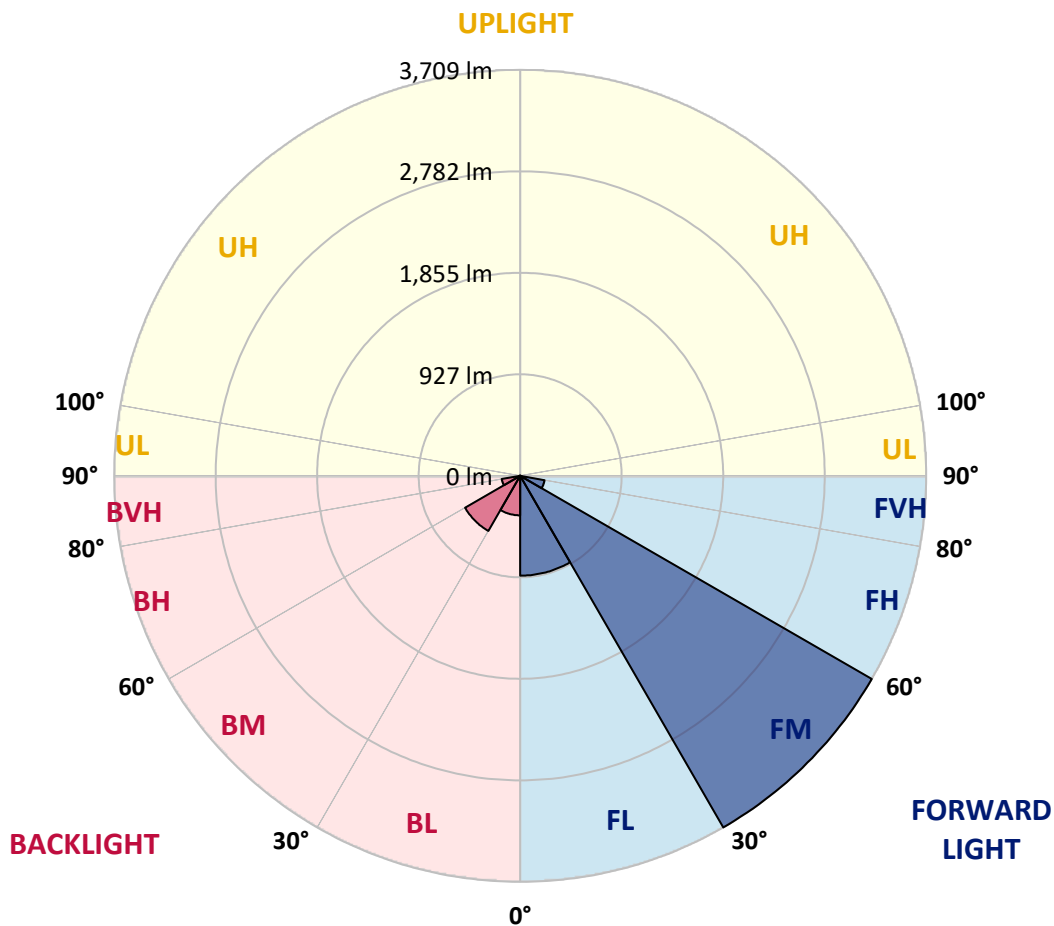
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.2	15.3			
FM (30°-60°)	3709.1	62.0			
FH (60°-80°)	226.3	3.8			G0/660
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	361.1	6.0	B1/500		
BM (30°-60°)	581.5	9.7	B1/1000		
BH (60°-80°)	171.3	2.9	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			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°	52°	55°	65°	75°	85°
0°	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7
2.5°	1984.7	1946.5	1950.9	1923.5	1893.9	1885.3	1855.0	1826.2	1804.6	1758.5	1715.9
5°	2169.2	2157.7	2140.4	2118.8	2096.4	2041.7	2010.7	1974.7	1895.4	1824.0	1753.4
7.5°	2195.9	2193.7	2203.1	2203.1	2211.0	2190.1	2146.2	2121.0	2036.6	1920.6	1789.4
10°	2008.5	2015.0	2060.4	2119.5	2201.7	2258.6	2251.4	2244.9	2152.7	1994.1	1832.0
12.5°	1859.3	1844.9	1871.6	1922.0	2045.3	2182.9	2275.9	2276.6	2252.8	2111.6	1862.9
15°	1775.0	1785.1	1792.3	1816.1	1909.1	2068.3	2231.9	2280.2	2384.7	2194.5	1912.0
17.5°	1829.1	1795.2	1793.8	1799.5	1847.1	1966.7	2150.5	2233.4	2456.8	2301.1	1972.5
20°	1899.7	1899.0	1878.8	1871.6	1870.9	1977.5	2097.2	2209.6	2495.0	2439.5	2033.7
22.5°	2023.7	2023.7	1990.5	1974.7	1940.8	2028.0	2104.4	2180.8	2558.4	2534.6	2063.3
25°	2231.2	2197.3	2140.4	2101.5	2082.0	2113.0	2180.8	2249.2	2613.9	2635.5	2124.6
27.5°	2422.9	2369.6	2341.5	2274.5	2248.5	2230.5	2292.5	2361.7	2678.8	2792.6	2157.7
30°	2640.6	2631.2	2580.7	2494.3	2430.1	2397.0	2453.9	2522.4	2797.7	2953.3	2234.1
32.5°	3029.7	2944.7	2876.2	2770.3	2665.8	2595.2	2651.4	2696.8	2995.1	3121.3	2317.7
35°	3449.9	3422.5	3304.3	3113.3	2953.3	2889.9	2923.1	2956.9	3225.0	3377.8	2458.2
37.5°	3862.8	3825.4	3728.1	3567.3	3372.8	3243.8	3267.5	3307.2	3483.0	3723.7	2629.7
40°	4159.7	4113.6	4064.6	4040.8	3847.7	3671.1	3657.4	3667.5	3831.8	4048.0	2820.0
42.5°	4181.4	4238.3	4253.4	4349.3	4303.9	4159.0	4074.7	4076.9	4164.8	4368.7	3012.4
45°	4136.0	4083.4	4195.1	4456.7	4606.6	4674.3	4532.3	4514.3	4370.9	4554.7	3108.3
47.5°	3659.6	3674.0	3862.8	4276.5	4709.6	5012.3	4979.2	4919.3	4481.2	4548.2	3093.1
50°	2892.8	2980.0	3155.1	3670.4	4421.4	5065.6	5260.9	5122.6	4415.6	4369.5	2938.9
52.5°	1926.4	1962.4	2077.7	2742.9	3555.1	4528.0	4936.6	4968.3	4355.0	4135.2	2743.6
55°	857.6	854.7	1016.9	1432.7	2230.5	3445.6	4033.6	4226.8	4122.3	3896.7	2553.4
57.5°	363.2	375.5	441.8	619.1	1096.9	2079.2	2732.8	2902.2	3170.3	3199.8	1958.8
60°	245.8	247.2	265.2	309.9	459.1	976.5	1433.4	1636.7	1828.4	1815.4	1039.2
62.5°	193.1	198.2	211.9	229.9	272.4	443.2	641.4	754.5	766.8	645.0	394.2
65°	165.0	165.8	179.4	194.6	213.3	258.0	309.2	314.9	318.5	307.0	289.7
67.5°	136.2	137.6	148.5	165.8	183.1	197.5	211.9	219.1	235.7	268.1	263.8
70°	108.1	110.3	119.6	134.0	149.9	158.5	176.6	183.1	198.2	223.4	233.5
72.5°	82.2	82.9	90.8	100.9	115.3	124.0	139.1	146.3	156.4	178.0	187.4
75°	59.1	61.3	67.0	72.1	74.2	80.0	94.4	102.3	116.7	126.1	126.8
77.5°	31.0	32.4	33.9	33.9	41.1	51.9	61.3	65.6	75.7	82.9	79.3
80°	12.3	13.0	16.6	22.3	28.8	37.5	44.0	46.1	54.8	59.1	61.3
82.5°	7.2	7.9	10.8	15.9	20.9	26.7	31.7	33.9	39.6	44.7	46.1
85°	3.6	4.3	6.5	10.1	13.7	16.6	15.9	15.1	15.1	14.4	15.1
87.5°	1.4	1.4	2.2	2.2	2.2	2.9	3.6	3.6	3.6	4.3	4.3
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°	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7	1685.7
2.5°	1687.8	1659.0	1632.3	1583.3	1530.0	1514.9	1452.9	1430.5	1414.7	1396.0	1390.2
5°	1696.5	1658.3	1572.5	1473.8	1395.2	1294.3	1228.0	1156.7	1104.8	1091.8	1088.2
7.5°	1714.5	1648.9	1501.2	1352.0	1191.3	1054.4	949.9	893.6	843.9	841.0	836.0
10°	1734.7	1620.8	1423.3	1189.1	983.7	856.9	794.2	769.7	757.4	754.5	753.1
12.5°	1751.2	1615.0	1336.1	1030.6	836.7	760.3	741.6	739.4	744.5	745.9	748.8
15°	1758.5	1592.0	1230.9	888.6	745.2	717.1	725.0	733.6	737.3	746.6	739.4
17.5°	1772.1	1562.4	1101.2	776.2	694.0	699.1	712.7	722.8	728.6	735.1	725.7
20°	1779.4	1535.8	979.4	709.1	676.0	685.4	704.1	712.0	719.2	722.1	711.3
22.5°	1772.9	1481.0	872.0	655.1	658.7	671.0	687.5	696.2	691.8	680.3	673.8
25°	1755.6	1403.9	760.3	620.5	634.2	655.8	668.8	662.3	654.4	647.9	645.7
27.5°	1754.8	1309.5	679.6	588.8	613.3	642.8	638.5	632.8	636.4	631.3	625.5
30°	1758.5	1217.9	613.3	570.8	598.2	612.6	617.6	611.9	616.2	606.8	609.7
32.5°	1739.7	1128.6	570.1	549.9	580.1	579.4	596.0	600.3	590.2	570.8	573.7
35°	1747.6	1056.5	533.3	540.5	560.0	560.0	572.9	567.9	541.2	529.7	532.6
37.5°	1802.4	985.9	515.3	527.5	540.5	546.3	541.9	520.3	513.8	513.8	515.3
40°	1854.3	925.3	504.5	524.7	522.5	526.1	494.4	496.5	496.5	497.3	493.7
42.5°	1900.4	884.3	495.8	507.4	511.0	492.2	472.8	470.6	475.6	474.9	472.0
45°	1917.0	850.4	483.6	487.9	490.8	459.8	450.4	446.1	451.9	454.0	456.9
47.5°	1853.6	822.3	469.9	461.2	455.5	435.3	423.0	415.1	422.3	434.6	437.5
50°	1772.1	785.5	448.3	431.7	419.4	410.8	402.1	394.2	399.3	407.9	405.7
52.5°	1651.8	727.9	420.9	403.6	382.7	384.8	376.9	372.6	375.5	375.5	373.3
55°	1480.3	598.2	374.8	362.5	345.2	351.0	352.4	346.6	340.9	345.9	341.6
57.5°	1010.4	422.3	334.4	334.4	317.1	325.0	324.3	310.6	296.9	298.4	295.5
60°	584.5	336.6	308.4	305.6	287.6	294.0	295.5	286.1	265.2	266.7	263.8
62.5°	332.2	287.6	269.5	265.2	261.6	267.4	267.4	255.1	237.1	238.5	235.7
65°	282.5	266.7	240.7	240.0	238.5	240.0	234.2	221.2	205.4	198.9	199.6
67.5°	256.6	246.5	221.2	214.8	210.4	209.7	198.9	186.7	179.4	173.7	173.0
70°	224.9	216.9	198.2	189.5	185.2	175.1	164.3	156.4	146.3	143.4	146.3
72.5°	178.0	177.3	170.1	160.7	151.3	143.4	134.0	123.2	113.9	111.7	106.7
75°	123.2	124.7	126.1	124.7	116.7	106.7	95.9	87.2	75.7	69.2	67.7
77.5°	80.7	82.9	85.0	82.2	77.1	67.7	60.5	49.7	41.1	36.0	35.3
80°	59.1	62.0	63.4	61.3	55.5	48.3	40.4	31.7	25.2	20.9	20.9
82.5°	45.4	48.3	49.7	46.1	40.4	34.6	28.8	22.3	17.3	13.7	13.0
85°	15.9	15.1	18.0	18.7	22.3	20.9	17.3	13.0	10.1	7.2	6.5
87.5°	4.3	4.3	5.0	5.0	4.3	3.6	3.6	3.6	2.9	2.2	2.2
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)