

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: P526642

Luminaire Tested: **GALN-SA1C-760-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526642
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-760-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 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: 6419 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

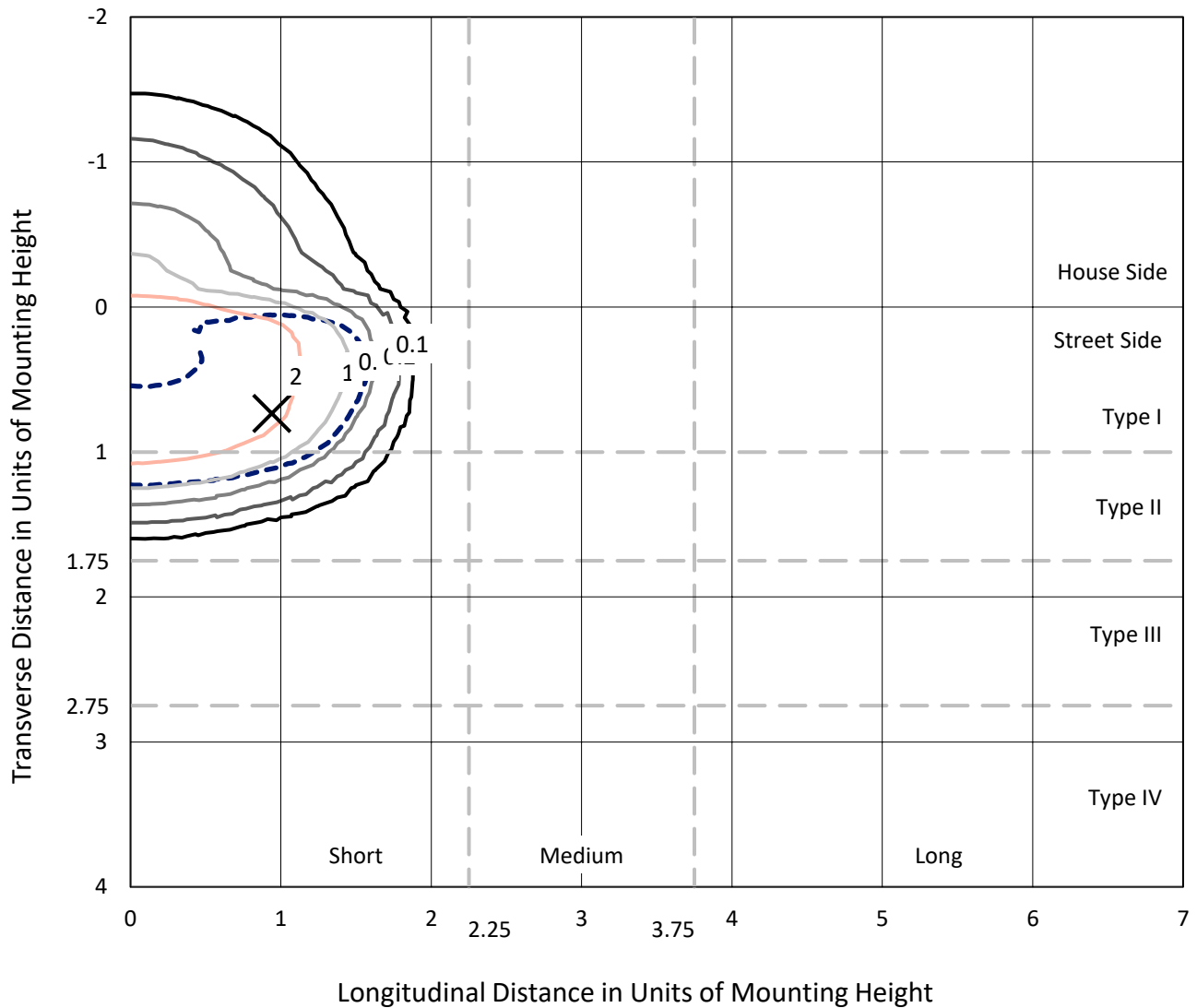
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

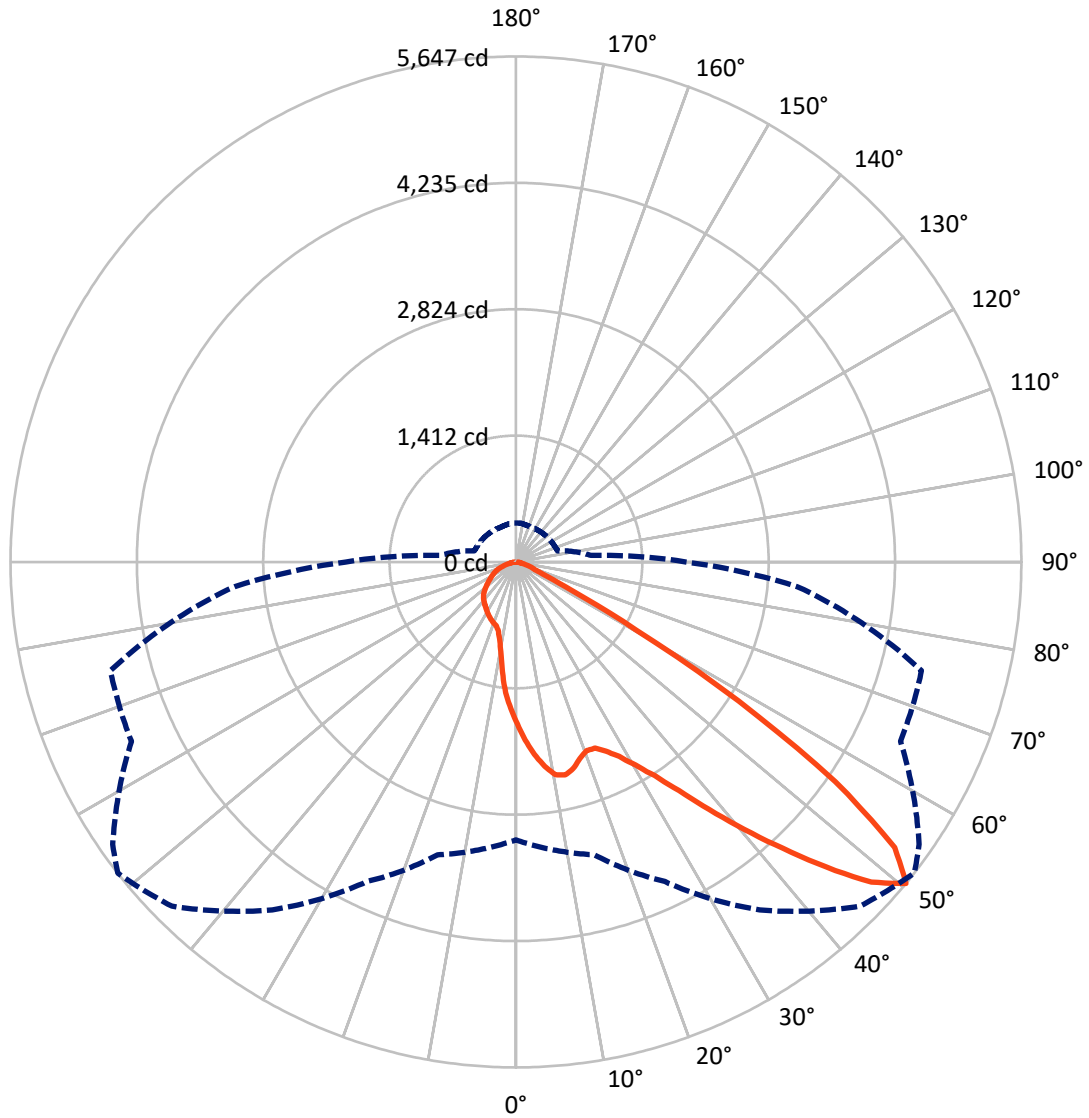
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1206.6	0.0	1206.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5212.4	0.0	5212.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	6419.0	0.0	6419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	2.6
10°-20°	447.0	7.0
20°-30°	752.9	11.7
30°-40°	1263.5	19.7
40°-50°	1932.8	30.1
50°-60°	1409.2	22.0
60°-70°	313.6	4.9
70°-80°	113.1	1.8
80°-90°	20.0	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°	6419.0	100.0
0°-180°	6419.0	100.0

Coefficient of Utilization



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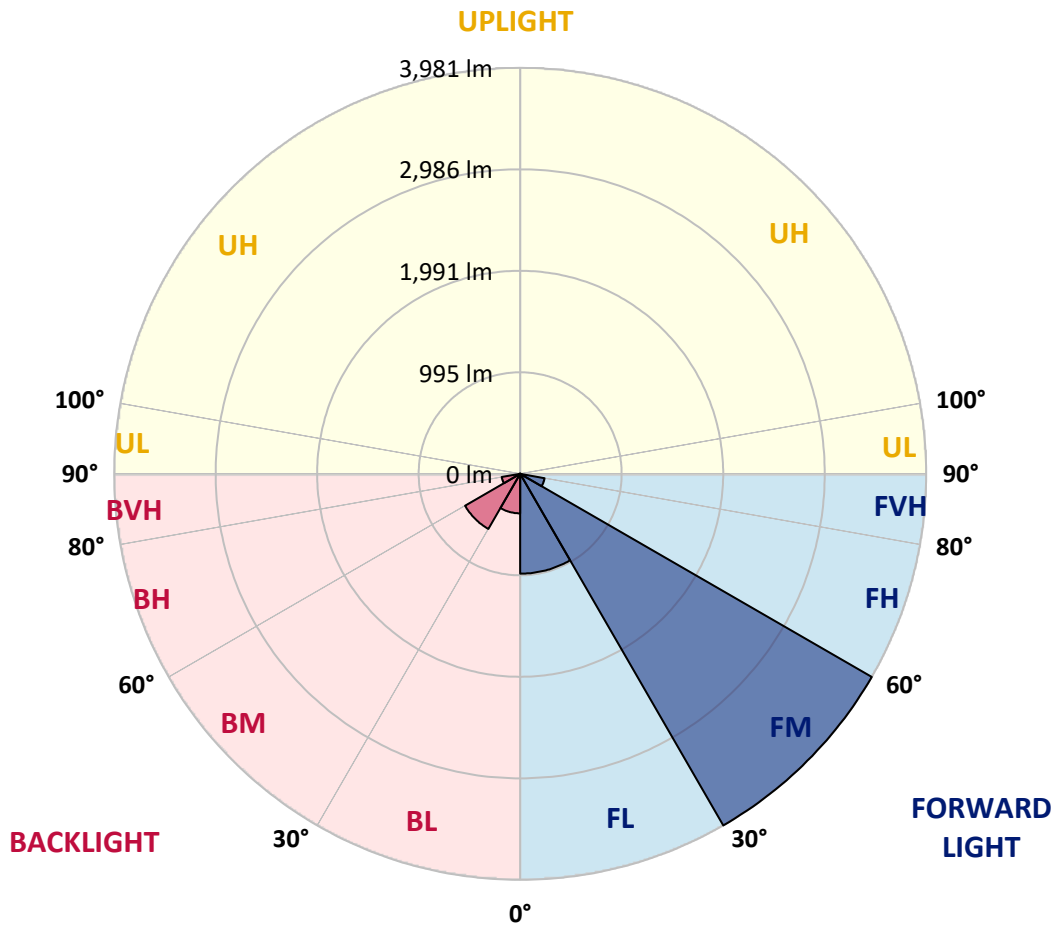
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.1	15.3			
FM (30°-60°)	3981.4	62.0			
FH (60°-80°)	242.9	3.8			G0/660
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	387.6	6.0	B1/500		
BM (30°-60°)	624.1	9.7	B1/1000		
BH (60°-80°)	183.8	2.9	B1/500		G1/500
BVH (80°-90°)	11.0	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°	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4
2.5°	2130.4	2089.4	2094.1	2064.7	2033.0	2023.7	1991.2	1960.3	1937.1	1887.5	1841.9
5°	2328.5	2316.1	2297.5	2274.3	2250.4	2191.6	2158.3	2119.6	2034.5	1957.9	1882.1
7.5°	2357.1	2354.8	2364.8	2364.8	2373.4	2350.9	2303.7	2276.7	2186.1	2061.6	1920.8
10°	2156.0	2162.9	2211.7	2275.1	2363.3	2424.4	2416.7	2409.7	2310.7	2140.5	1966.4
12.5°	1995.8	1980.4	2009.0	2063.1	2195.4	2343.2	2443.0	2443.7	2418.2	2266.6	1999.7
15°	1905.3	1916.2	1923.9	1949.4	2049.2	2220.2	2395.8	2447.6	2559.8	2355.6	2052.3
17.5°	1963.4	1927.0	1925.4	1931.6	1982.7	2111.1	2308.4	2397.3	2637.1	2470.0	2117.3
20°	2039.2	2038.4	2016.7	2009.0	2008.2	2122.7	2251.1	2371.8	2678.1	2618.6	2183.1
22.5°	2172.2	2172.2	2136.6	2119.6	2083.3	2176.9	2258.9	2340.9	2746.2	2720.7	2214.8
25°	2395.0	2358.7	2297.5	2255.8	2234.9	2268.1	2340.9	2414.4	2805.8	2829.0	2280.5
27.5°	2600.8	2543.5	2513.4	2441.4	2413.6	2394.2	2460.8	2535.0	2875.4	2997.6	2316.1
30°	2834.4	2824.4	2770.2	2677.4	2608.5	2572.9	2634.0	2707.5	3003.0	3170.1	2398.1
32.5°	3252.1	3160.9	3087.4	2973.7	2861.5	2785.7	2846.0	2894.7	3215.0	3350.4	2487.8
35°	3703.1	3673.7	3546.9	3341.9	3170.1	3102.1	3137.7	3174.0	3461.8	3625.8	2638.7
37.5°	4146.4	4106.2	4001.7	3829.2	3620.4	3481.9	3507.4	3550.0	3738.7	3997.1	2822.8
40°	4465.1	4415.6	4363.0	4337.5	4130.2	3940.6	3925.9	3936.8	4113.1	4345.2	3027.0
42.5°	4488.3	4549.4	4565.7	4668.6	4619.8	4464.3	4373.8	4376.2	4470.5	4689.5	3233.6
45°	4439.6	4383.1	4503.0	4783.8	4944.7	5017.5	4865.1	4845.7	4691.8	4889.0	3336.5
47.5°	3928.3	3943.7	4146.4	4590.4	5055.4	5380.3	5344.7	5280.5	4810.1	4882.1	3320.2
50°	3105.2	3198.8	3386.7	3939.9	4745.9	5437.5	5647.2	5498.6	4739.7	4690.2	3154.7
52.5°	2067.8	2106.5	2230.2	2944.3	3816.1	4860.4	5299.0	5333.1	4674.8	4438.8	2945.0
55°	920.6	917.5	1091.5	1537.9	2394.2	3698.5	4329.7	4537.1	4424.9	4182.8	2740.8
57.5°	389.9	403.0	474.2	664.5	1177.4	2231.8	2933.4	3115.2	3403.0	3434.7	2102.6
60°	263.8	265.3	284.7	332.6	492.8	1048.2	1538.7	1756.8	1962.6	1948.7	1115.5
62.5°	207.3	212.7	227.4	246.8	292.4	475.8	688.5	809.9	823.1	692.4	423.1
65°	177.2	177.9	192.6	208.9	229.0	276.9	331.9	338.1	341.9	329.5	311.0
67.5°	146.2	147.8	159.4	177.9	196.5	212.0	227.4	235.2	253.0	287.8	283.1
70°	116.0	118.4	128.4	143.9	160.9	170.2	189.5	196.5	212.7	239.8	250.6
72.5°	88.2	89.0	97.5	108.3	123.8	133.1	149.3	157.0	167.9	191.1	201.1
75°	63.4	65.8	71.9	77.4	79.7	85.9	101.3	109.8	125.3	135.4	136.2
77.5°	33.3	34.8	36.4	36.4	44.1	55.7	65.8	70.4	81.2	89.0	85.1
80°	13.2	13.9	17.8	24.0	30.9	40.2	47.2	49.5	58.8	63.4	65.8
82.5°	7.7	8.5	11.6	17.0	22.4	28.6	34.0	36.4	42.5	48.0	49.5
85°	3.9	4.6	7.0	10.8	14.7	17.8	17.0	16.2	16.2	15.5	16.2
87.5°	1.5	1.5	2.3	2.3	2.3	3.1	3.9	3.9	3.9	4.6	4.6
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°	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4
2.5°	1811.7	1780.8	1752.2	1699.6	1642.3	1626.1	1559.5	1535.6	1518.5	1498.4	1492.2
5°	1821.0	1780.0	1688.0	1582.0	1497.7	1389.4	1318.2	1241.6	1185.9	1172.0	1168.1
7.5°	1840.4	1770.0	1611.4	1451.2	1278.7	1131.8	1019.6	959.2	905.9	902.8	897.4
10°	1862.0	1739.8	1527.8	1276.4	1055.9	919.8	852.5	826.2	813.0	809.9	808.4
12.5°	1879.8	1733.6	1434.2	1106.2	898.1	816.1	796.0	793.7	799.1	800.7	803.8
15°	1887.5	1708.8	1321.3	953.8	799.9	769.7	778.2	787.5	791.4	801.4	793.7
17.5°	1902.2	1677.1	1182.0	833.1	745.0	750.4	765.1	775.9	782.1	789.1	779.0
20°	1910.0	1648.5	1051.3	761.2	725.6	735.7	755.8	764.3	772.0	775.1	763.5
22.5°	1903.0	1589.7	936.0	703.2	707.1	720.2	738.0	747.3	742.6	730.3	723.3
25°	1884.4	1506.9	816.1	666.1	680.8	704.0	717.9	710.9	702.4	695.5	693.1
27.5°	1883.7	1405.6	729.5	632.0	658.3	690.0	685.4	679.2	683.1	677.7	671.5
30°	1887.5	1307.4	658.3	612.7	642.1	657.5	663.0	656.8	661.4	651.4	654.5
32.5°	1867.4	1211.4	611.9	590.2	622.7	622.0	639.8	644.4	633.6	612.7	615.8
35°	1875.9	1134.1	572.5	580.2	601.1	601.1	615.0	609.6	581.0	568.6	571.7
37.5°	1934.7	1058.3	553.1	566.3	580.2	586.4	581.7	558.5	551.6	551.6	553.1
40°	1990.4	993.3	541.5	563.2	560.8	564.7	530.7	533.0	533.0	533.8	529.9
42.5°	2039.9	949.2	532.2	544.6	548.5	528.4	507.5	505.1	510.6	509.8	506.7
45°	2057.7	912.8	519.1	523.7	526.8	493.5	483.5	478.8	485.0	487.4	490.5
47.5°	1989.7	882.7	504.4	495.1	488.9	467.2	454.1	445.6	453.3	466.5	469.6
50°	1902.2	843.2	481.2	463.4	450.2	440.9	431.7	423.1	428.6	437.8	435.5
52.5°	1773.1	781.3	451.8	433.2	410.8	413.1	404.6	399.9	403.0	403.0	400.7
55°	1588.9	642.1	402.3	389.1	370.5	376.7	378.3	372.1	365.9	371.3	366.7
57.5°	1084.6	453.3	358.9	358.9	340.4	348.9	348.1	333.4	318.7	320.3	317.2
60°	627.4	361.3	331.1	328.0	308.7	315.6	317.2	307.1	284.7	286.2	283.1
62.5°	356.6	308.7	289.3	284.7	280.8	287.0	287.0	273.8	254.5	256.1	253.0
65°	303.2	286.2	258.4	257.6	256.1	257.6	251.4	237.5	220.5	213.5	214.3
67.5°	275.4	264.6	237.5	230.5	225.9	225.1	213.5	200.4	192.6	186.4	185.7
70°	241.4	232.8	212.7	203.5	198.8	188.0	176.4	167.9	157.0	153.9	157.0
72.5°	191.1	190.3	182.6	172.5	162.5	153.9	143.9	132.3	122.2	119.9	114.5
75°	132.3	133.8	135.4	133.8	125.3	114.5	102.9	93.6	81.2	74.3	72.7
77.5°	86.6	89.0	91.3	88.2	82.8	72.7	65.0	53.4	44.1	38.7	37.9
80°	63.4	66.5	68.1	65.8	59.6	51.8	43.3	34.0	27.1	22.4	22.4
82.5°	48.7	51.8	53.4	49.5	43.3	37.1	30.9	24.0	18.6	14.7	13.9
85°	17.0	16.2	19.3	20.1	24.0	22.4	18.6	13.9	10.8	7.7	7.0
87.5°	4.6	4.6	5.4	5.4	4.6	3.9	3.9	3.9	3.1	2.3	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)