

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: P526824

Luminaire Tested: **GALN-SA1D-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526824
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-SA1D-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 7063 lumens
Efficiency: N/A
Efficacy: 108.7 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

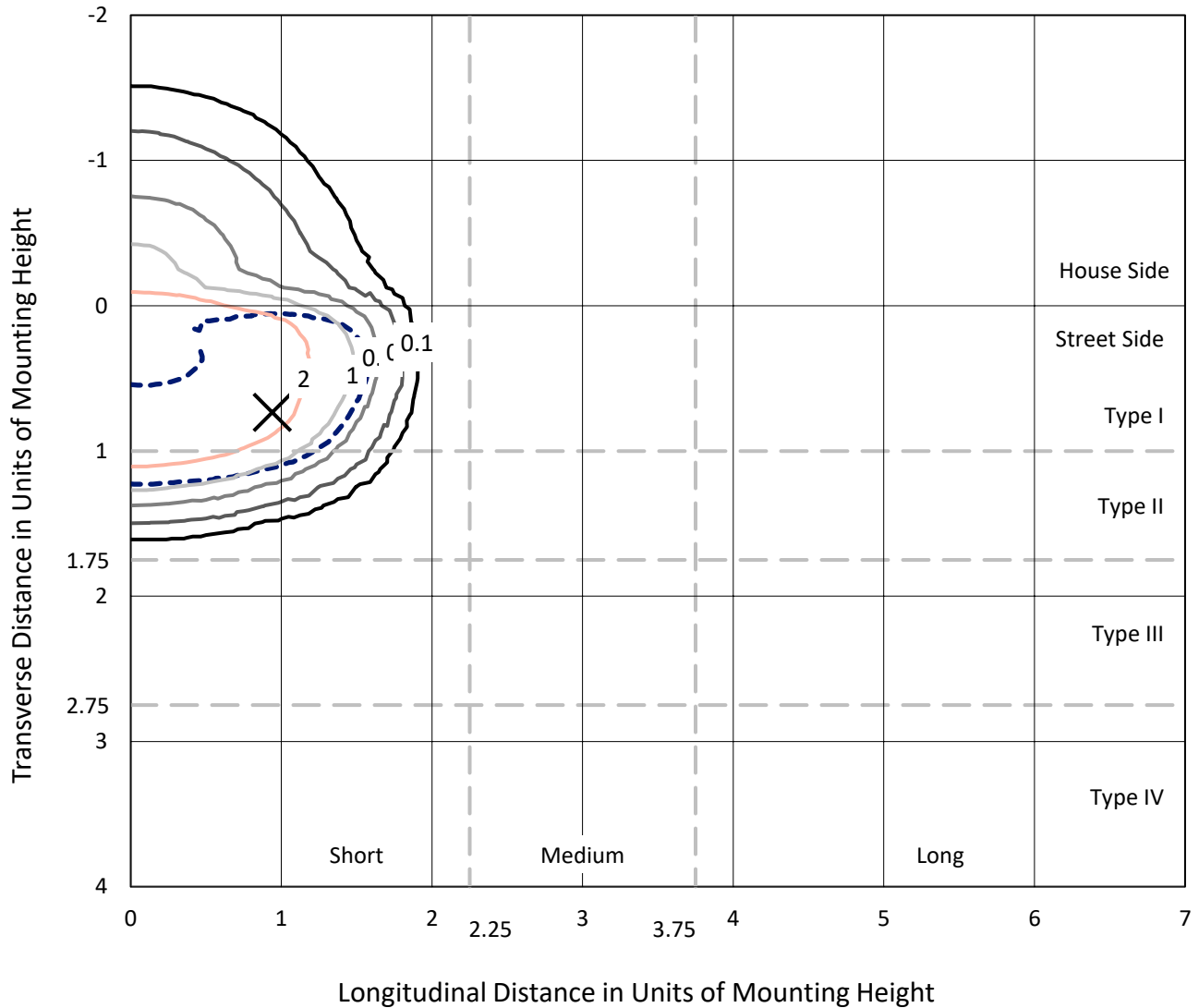
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

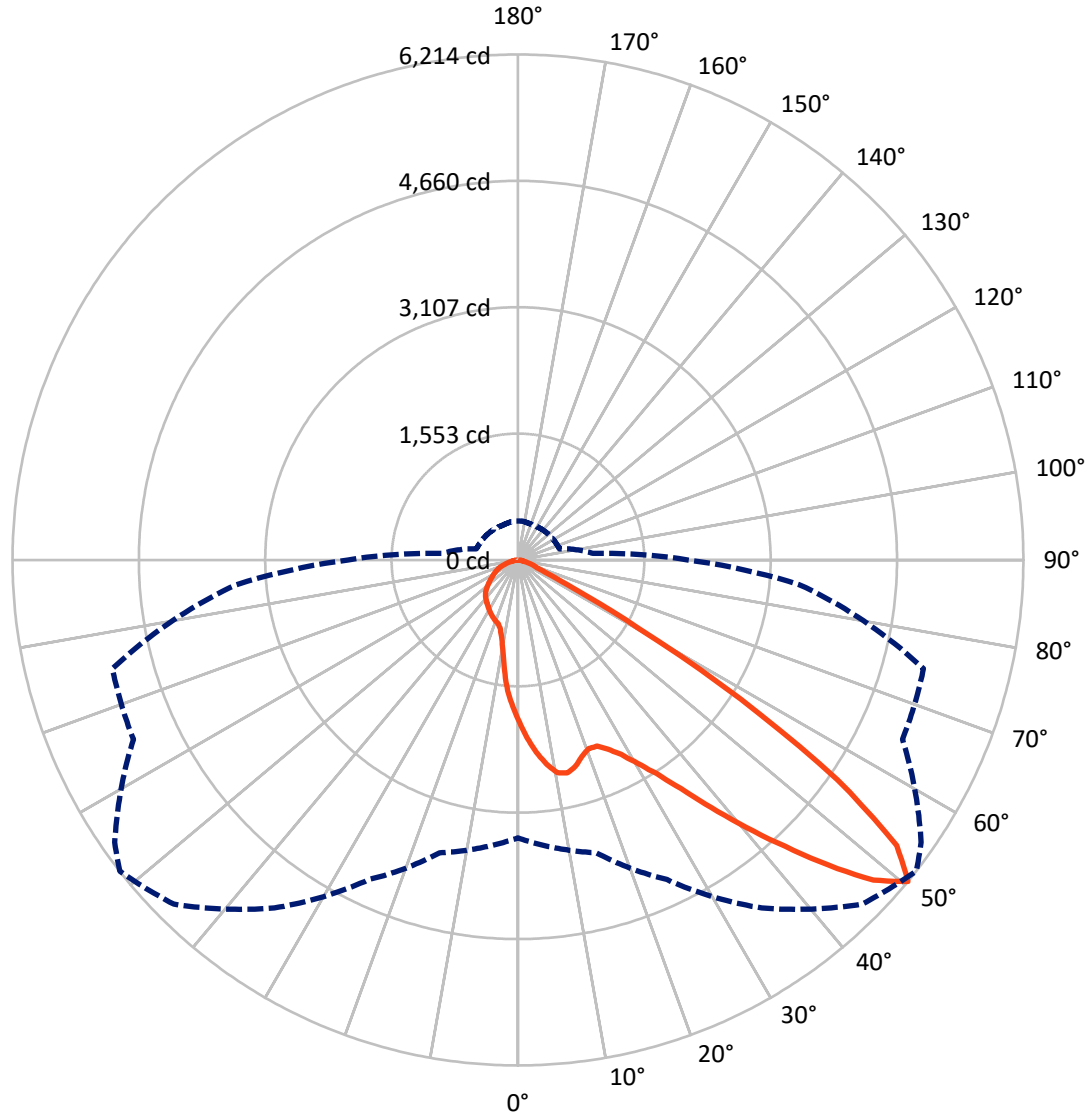
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1327.7	0.0	1327.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5735.3	0.0	5735.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	7063.0	0.0	7063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	2.6
10°-20°	491.8	7.0
20°-30°	828.5	11.7
30°-40°	1390.3	19.7
40°-50°	2126.8	30.1
50°-60°	1550.6	22.0
60°-70°	345.1	4.9
70°-80°	124.5	1.8
80°-90°	22.0	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°	7063.0	100.0
0°-180°	7063.0	100.0

Coefficient of Utilization



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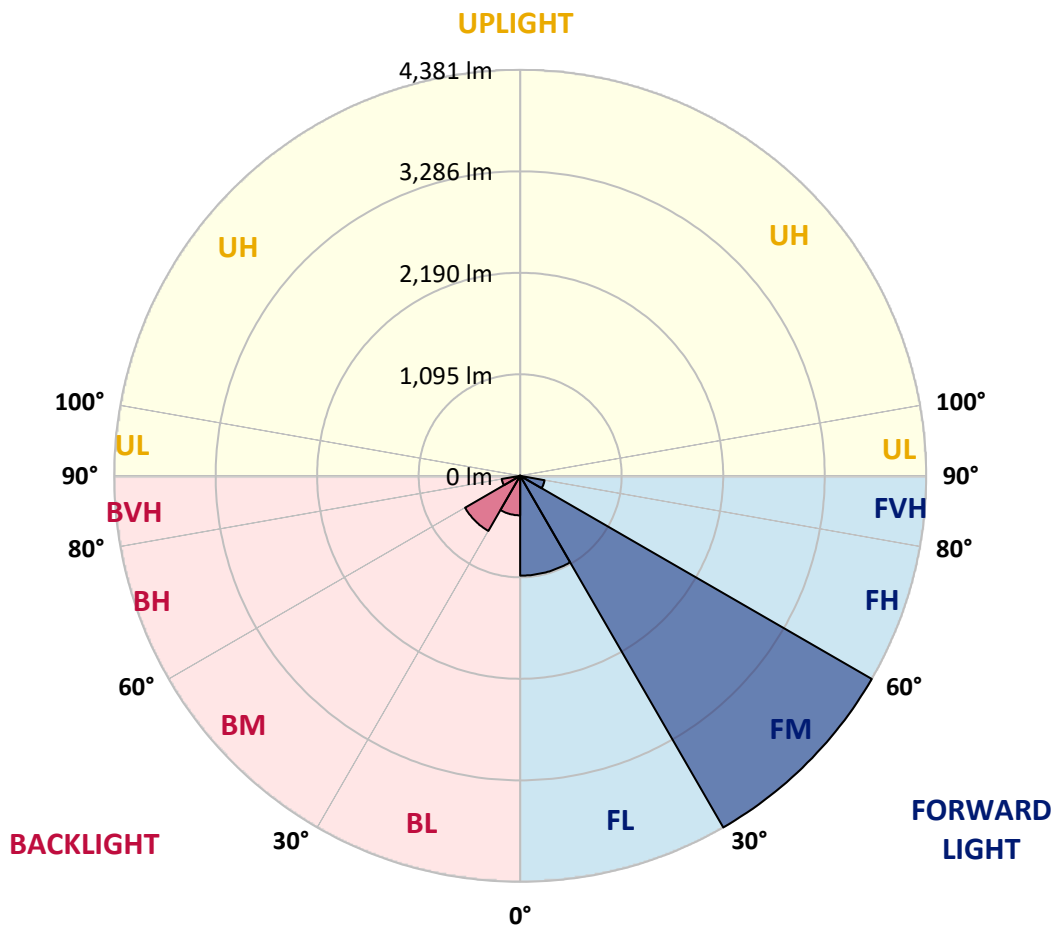
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.3	15.3			
FM (30°-60°)	4380.8	62.0			
FH (60°-80°)	267.3	3.8			G0/660
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	426.5	6.0	B1/500		
BM (30°-60°)	686.8	9.7	B1/1000		
BH (60°-80°)	202.3	2.9	B1/500		G1/500
BVH (80°-90°)	12.2	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°	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9
2.5°	2344.2	2299.1	2304.2	2271.8	2236.9	2226.7	2191.0	2156.9	2131.4	2076.9	2026.7
5°	2562.1	2548.5	2528.0	2502.5	2476.1	2411.4	2374.8	2332.3	2238.6	2154.4	2071.0
7.5°	2593.6	2591.0	2602.1	2602.1	2611.5	2586.8	2534.9	2505.1	2405.5	2268.4	2113.5
10°	2372.3	2379.9	2433.6	2503.4	2600.4	2667.6	2659.1	2651.5	2542.5	2355.3	2163.7
12.5°	2196.1	2179.1	2210.6	2270.1	2415.7	2578.3	2688.1	2688.9	2660.8	2494.0	2200.3
15°	2096.5	2108.4	2116.9	2145.0	2254.8	2442.9	2636.1	2693.2	2816.6	2591.9	2258.2
17.5°	2160.3	2120.3	2118.6	2125.4	2181.6	2322.9	2540.0	2637.8	2901.7	2717.9	2329.7
20°	2243.7	2242.9	2219.1	2210.6	2209.7	2335.7	2477.0	2609.8	2946.8	2881.3	2402.1
22.5°	2390.2	2390.2	2351.0	2332.3	2292.3	2395.3	2485.5	2575.7	3021.7	2993.6	2437.0
25°	2635.3	2595.3	2528.0	2482.1	2459.1	2495.7	2575.7	2656.6	3087.3	3112.8	2509.3
27.5°	2861.7	2798.7	2765.5	2686.4	2655.7	2634.4	2707.6	2789.4	3163.9	3298.4	2548.5
30°	3118.8	3107.7	3048.1	2946.0	2870.2	2831.1	2898.3	2979.2	3304.3	3488.2	2638.7
32.5°	3578.4	3478.0	3397.1	3272.0	3148.6	3065.1	3131.5	3185.2	3537.6	3686.5	2737.4
35°	4074.7	4042.3	3902.7	3677.2	3488.2	3413.3	3452.4	3492.4	3809.1	3989.5	2903.4
37.5°	4562.4	4518.1	4403.2	4213.4	3983.6	3831.2	3859.3	3906.1	4113.8	4398.1	3106.0
40°	4913.1	4858.6	4800.7	4772.6	4544.5	4336.0	4319.8	4331.7	4525.8	4781.2	3330.7
42.5°	4938.6	5005.9	5023.7	5137.0	5083.3	4912.2	4812.7	4815.2	4919.0	5159.9	3558.0
45°	4885.0	4822.9	4954.8	5263.8	5440.8	5520.8	5353.2	5331.9	5162.5	5379.5	3671.2
47.5°	4322.4	4339.4	4562.4	5051.0	5562.6	5920.1	5880.9	5810.2	5292.7	5371.9	3653.3
50°	3416.7	3519.7	3726.5	4335.1	5222.1	5983.0	6213.7	6050.3	5215.3	5160.8	3471.2
52.5°	2275.2	2317.8	2454.0	3239.6	4198.9	5348.1	5830.7	5868.1	5143.8	4884.2	3240.5
55°	1012.9	1009.5	1201.0	1692.2	2634.4	4069.6	4764.1	4992.3	4868.8	4602.4	3015.8
57.5°	429.0	443.5	521.8	731.2	1295.5	2455.7	3227.7	3427.8	3744.4	3779.3	2313.5
60°	290.3	292.0	313.2	366.0	542.2	1153.4	1693.0	1933.1	2159.5	2144.2	1227.4
62.5°	228.1	234.1	250.3	271.5	321.8	523.5	757.6	891.2	905.7	761.8	465.6
65°	194.9	195.8	211.9	229.8	252.0	304.7	365.2	372.0	376.2	362.6	342.2
67.5°	160.9	162.6	175.3	195.8	216.2	233.2	250.3	258.8	278.3	316.6	311.5
70°	127.7	130.2	141.3	158.3	177.0	187.3	208.5	216.2	234.1	263.9	275.8
72.5°	97.0	97.9	107.3	119.2	136.2	146.4	164.3	172.8	184.7	210.2	221.3
75°	69.8	72.4	79.2	85.1	87.7	94.5	111.5	120.9	137.9	149.0	149.8
77.5°	36.6	38.3	40.0	40.0	48.5	61.3	72.4	77.5	89.4	97.9	93.6
80°	14.5	15.3	19.6	26.4	34.0	44.3	51.9	54.5	64.7	69.8	72.4
82.5°	8.5	9.4	12.8	18.7	24.7	31.5	37.5	40.0	46.8	52.8	54.5
85°	4.3	5.1	7.7	11.9	16.2	19.6	18.7	17.9	17.9	17.0	17.9
87.5°	1.7	1.7	2.6	2.6	2.6	3.4	4.3	4.3	4.3	5.1	5.1
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°	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9	1990.9
2.5°	1993.5	1959.4	1928.0	1870.1	1807.1	1789.2	1716.0	1689.6	1670.9	1648.8	1642.0
5°	2003.7	1958.6	1857.3	1740.7	1647.9	1528.7	1450.4	1366.2	1304.9	1289.6	1285.3
7.5°	2025.0	1947.5	1773.0	1596.8	1407.0	1245.3	1121.9	1055.5	996.7	993.3	987.4
10°	2048.8	1914.3	1681.1	1404.5	1161.9	1012.1	938.0	909.1	894.6	891.2	889.5
12.5°	2068.4	1907.5	1578.1	1217.2	988.2	898.0	875.9	873.3	879.3	881.0	884.4
15°	2076.9	1880.3	1453.8	1049.5	880.1	846.9	856.3	866.5	870.8	881.8	873.3
17.5°	2093.1	1845.4	1300.6	916.7	819.7	825.7	841.8	853.7	860.6	868.2	857.2
20°	2101.6	1813.9	1156.8	837.6	798.4	809.5	831.6	841.0	849.5	852.9	840.1
22.5°	2093.9	1749.2	1029.9	773.7	778.0	792.5	812.0	822.3	817.1	803.5	795.9
25°	2073.5	1658.1	898.0	732.9	749.1	774.6	789.9	782.2	772.9	765.2	762.7
27.5°	2072.7	1546.6	802.7	695.4	724.4	759.3	754.2	747.3	751.6	745.6	738.8
30°	2076.9	1438.5	724.4	674.1	706.5	723.5	729.5	722.7	727.8	716.7	720.1
32.5°	2054.8	1333.0	673.3	649.5	685.2	684.4	703.9	709.0	697.1	674.1	677.6
35°	2064.1	1247.9	629.9	638.4	661.4	661.4	676.7	670.7	639.2	625.6	629.0
37.5°	2128.8	1164.4	608.6	623.1	638.4	645.2	640.1	614.6	606.9	606.9	608.6
40°	2190.1	1092.9	595.8	619.7	617.1	621.4	583.9	586.5	586.5	587.3	583.1
42.5°	2244.6	1044.4	585.6	599.2	603.5	581.4	558.4	555.8	561.8	560.9	557.5
45°	2264.2	1004.4	571.2	576.3	579.7	543.1	532.0	526.9	533.7	536.3	539.7
47.5°	2189.3	971.2	555.0	544.8	538.0	514.1	499.7	490.3	498.8	513.3	516.7
50°	2093.1	927.8	529.4	509.9	495.4	485.2	475.0	465.6	471.6	481.8	479.2
52.5°	1950.9	859.7	497.1	476.7	452.0	454.5	445.2	440.1	443.5	443.5	440.9
55°	1748.4	706.5	442.6	428.2	407.7	414.5	416.2	409.4	402.6	408.6	403.5
57.5°	1193.4	498.8	395.0	395.0	374.5	383.9	383.0	366.9	350.7	352.4	349.0
60°	690.3	397.5	364.3	360.9	339.6	347.3	349.0	337.9	313.2	314.9	311.5
62.5°	392.4	339.6	318.3	313.2	309.0	315.8	315.8	301.3	280.0	281.7	278.3
65°	333.7	314.9	284.3	283.4	281.7	283.4	276.6	261.3	242.6	234.9	235.8
67.5°	303.0	291.1	261.3	253.7	248.5	247.7	234.9	220.5	211.9	205.1	204.3
70°	265.6	256.2	234.1	223.9	218.8	206.8	194.1	184.7	172.8	169.4	172.8
72.5°	210.2	209.4	200.9	189.8	178.8	169.4	158.3	145.6	134.5	131.9	126.0
75°	145.6	147.3	149.0	147.3	137.9	126.0	113.2	103.0	89.4	81.7	80.0
77.5°	95.3	97.9	100.4	97.0	91.1	80.0	71.5	58.7	48.5	42.6	41.7
80°	69.8	73.2	74.9	72.4	65.5	57.0	47.7	37.5	29.8	24.7	24.7
82.5°	53.6	57.0	58.7	54.5	47.7	40.9	34.0	26.4	20.4	16.2	15.3
85°	18.7	17.9	21.3	22.1	26.4	24.7	20.4	15.3	11.9	8.5	7.7
87.5°	5.1	5.1	6.0	6.0	5.1	4.3	4.3	4.3	3.4	2.6	2.6
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)