

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: P527297

Luminaire Tested: **GALN-SA2B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6692 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

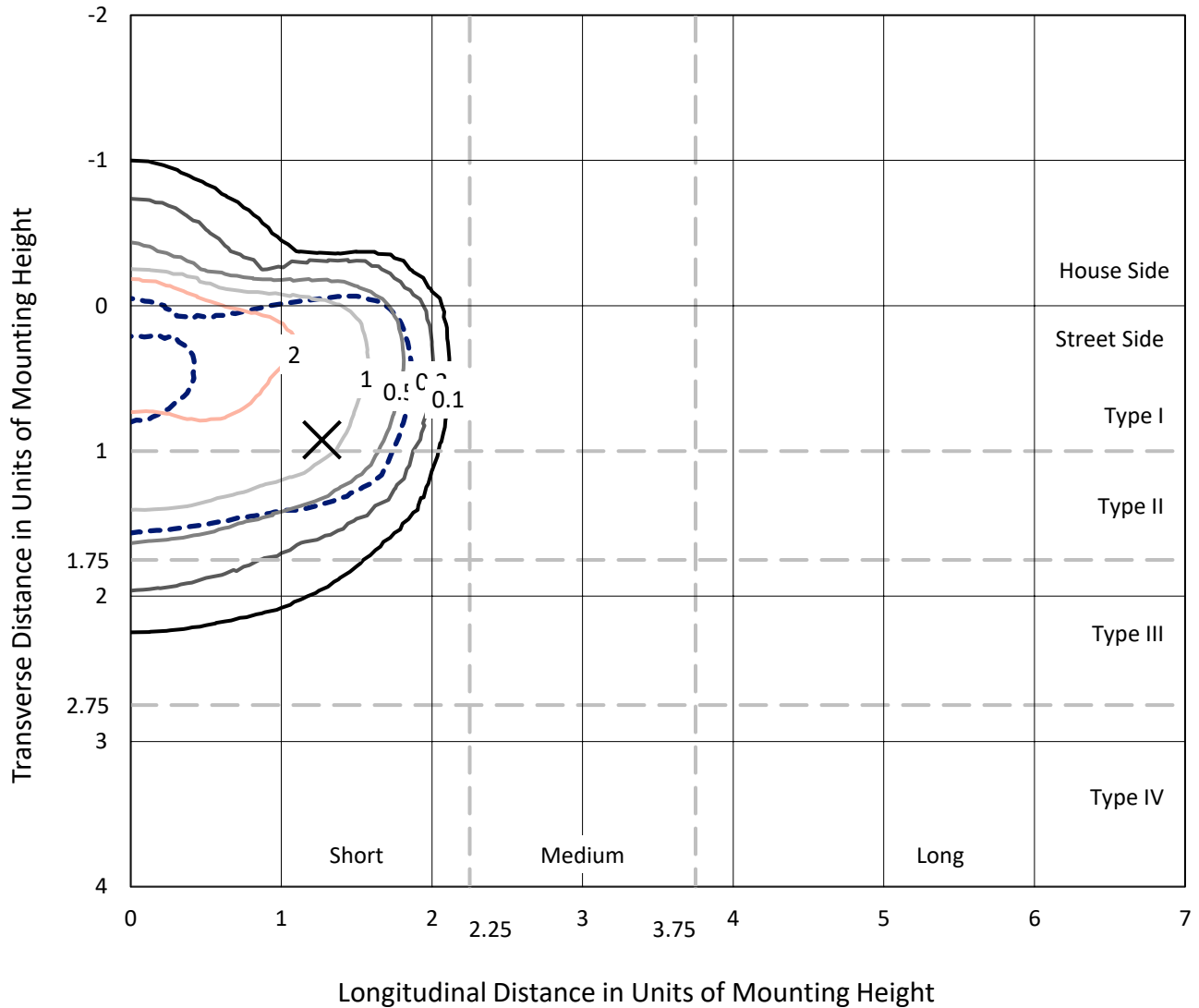
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527297
 CATALOG NUMBER: GALN-SA2B-740-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

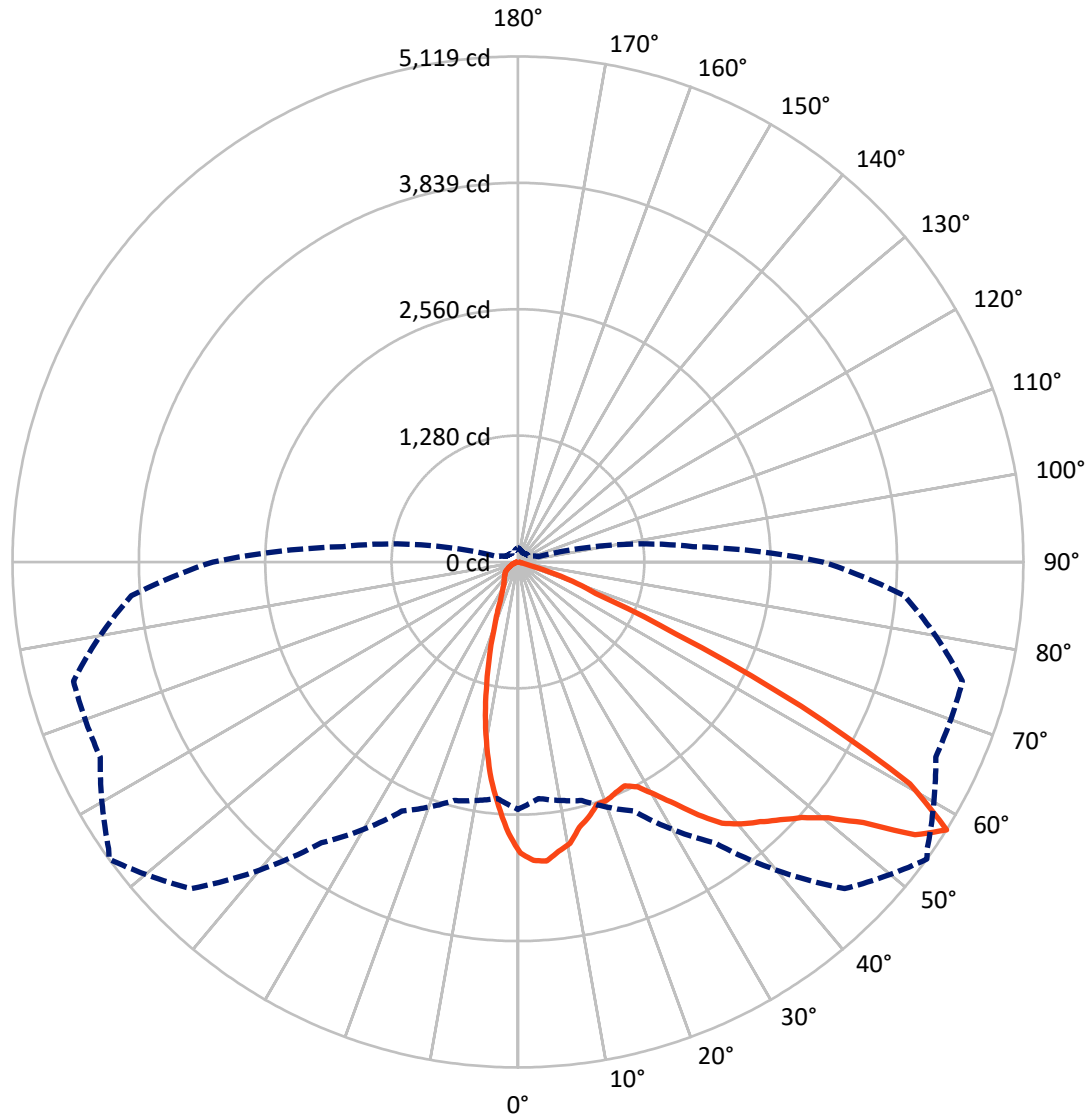
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P527297
CATALOG NUMBER: GALN-SA2B-740-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.7	0.0	945.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5746.3	0.0	5746.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	6692.0	0.0	6692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.7	3.7
10°-20°	526.7	7.9
20°-30°	697.9	10.4
30°-40°	1014.3	15.2
40°-50°	1504.1	22.5
50°-60°	1880.8	28.1
60°-70°	741.9	11.1
70°-80°	73.9	1.1
80°-90°	5.7	0.1
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°	6692.0	100.0
0°-180°	6692.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527297

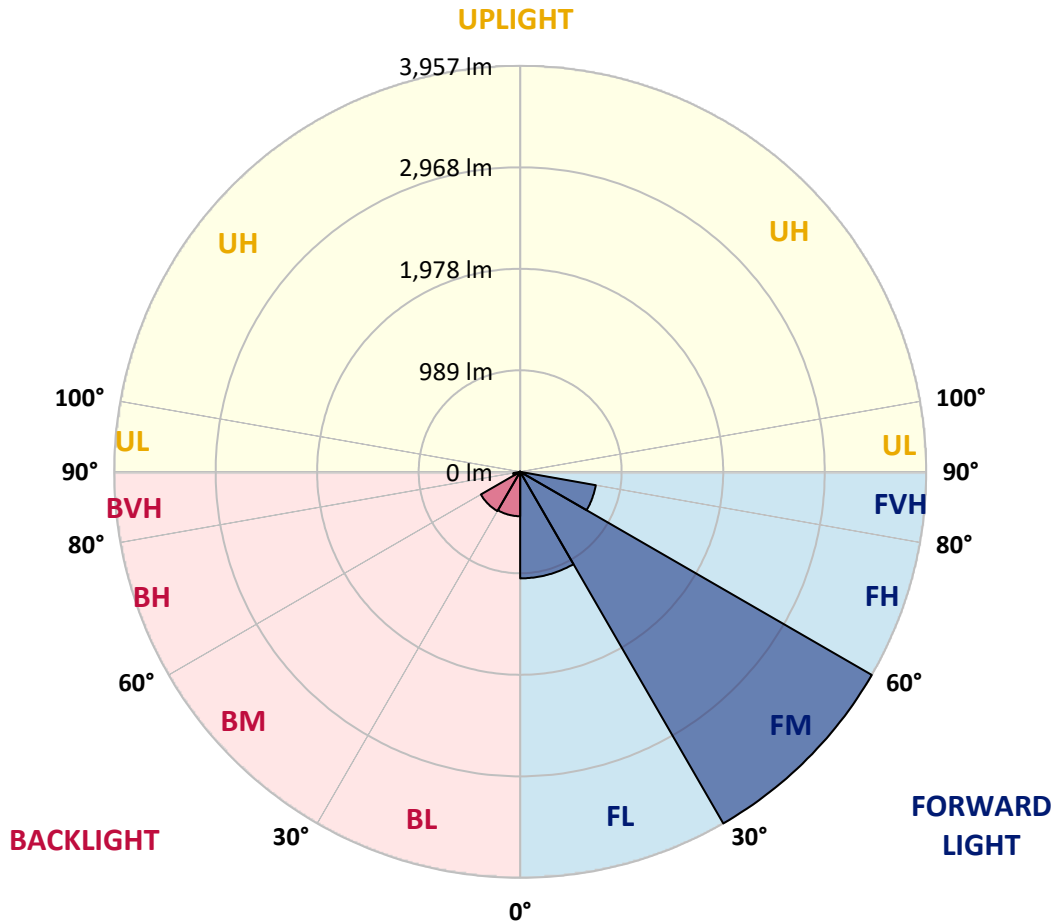
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.8	15.5			
FM (30°-60°)	3957.0	59.1			
FH (60°-80°)	747.9	11.2			G1/1800
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	432.5	6.5	B1/500		
BM (30°-60°)	442.2	6.6	B1/1000		
BH (60°-80°)	67.8	1.0	B0/110		G0/110
BVH (80°-90°)	3.1	0.0			G0/10
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





REPORT NUMBER: P527297

CATALOG NUMBER: GALN-SA2B-740-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9
2.5°	3119.6	3087.3	3089.8	3078.6	3063.6	3074.8	3026.3	3037.5	3036.3	2970.3	2926.8
5°	3041.2	3076.1	3040.0	3069.9	3041.2	3072.4	3042.5	3020.1	2984.0	2935.5	2854.6
7.5°	2908.1	2874.5	2884.5	2921.8	2928.0	2997.7	2960.4	2989.0	2974.0	2878.2	2767.5
10°	2640.6	2633.1	2682.9	2732.6	2793.6	2868.3	2896.9	2880.7	2869.5	2833.4	2685.4
12.5°	2435.2	2456.4	2455.1	2537.3	2640.6	2682.9	2757.5	2755.0	2817.3	2750.1	2608.2
15°	2239.9	2251.1	2303.3	2354.4	2468.8	2589.5	2681.6	2694.1	2768.7	2721.4	2548.5
17.5°	2120.4	2104.2	2145.3	2206.3	2323.2	2481.3	2583.3	2613.2	2715.2	2705.3	2480.0
20°	2002.2	2002.2	2035.8	2108.0	2215.0	2392.9	2574.6	2565.9	2715.2	2686.6	2406.6
22.5°	1962.4	1982.3	1991.0	2045.7	2172.7	2325.7	2537.3	2553.5	2736.4	2677.9	2374.3
25°	2017.1	1991.0	1993.5	2037.0	2156.5	2293.4	2509.9	2546.0	2774.9	2721.4	2348.1
27.5°	2025.8	2052.0	2059.4	2089.3	2168.9	2303.3	2578.3	2651.8	2870.8	2823.5	2355.6
30°	2101.7	2127.9	2126.6	2177.7	2232.4	2384.2	2731.4	2746.3	3068.6	2951.6	2401.6
32.5°	2193.8	2221.2	2229.9	2289.6	2333.2	2532.3	2918.1	2956.6	3259.0	3153.2	2522.3
35°	2308.3	2298.4	2338.2	2397.9	2491.2	2748.8	3145.8	3210.5	3464.3	3414.6	2646.8
37.5°	2451.4	2439.0	2477.5	2574.6	2701.5	3005.2	3356.1	3398.4	3613.7	3657.2	2877.0
40°	2552.2	2557.2	2674.2	2804.8	2939.2	3249.1	3489.2	3530.3	3718.2	3883.7	3051.2
42.5°	2720.2	2751.3	2891.9	3051.2	3191.8	3432.0	3597.5	3637.3	3766.7	4065.4	3286.4
45°	2964.1	2950.4	3106.0	3283.9	3439.4	3622.4	3725.6	3712.0	3795.3	4245.8	3434.5
47.5°	3277.7	3280.2	3383.4	3535.3	3697.0	3787.9	3868.8	3820.2	3855.1	4436.2	3632.3
50°	3491.7	3510.4	3593.7	3749.3	3830.2	3969.5	4072.8	4043.0	4031.8	4550.7	3756.8
52.5°	3546.5	3602.5	3647.3	3841.4	4030.5	4250.8	4382.7	4446.1	4247.0	4589.2	3914.8
55°	3133.3	3183.1	3341.1	3607.4	4106.4	4696.3	4877.9	4879.2	4528.3	4761.0	4025.5
57.5°	2504.9	2404.1	2501.2	2783.7	3471.8	4677.6	5119.3	5060.9	4668.9	4660.2	3929.7
60°	1732.2	1707.3	1713.5	1825.5	2402.9	3720.7	4561.9	4637.8	4299.3	4039.2	3110.9
62.5°	1372.5	1351.4	1324.0	1311.6	1492.0	2318.3	3217.9	3325.0	3006.4	2619.4	1844.2
65°	1075.1	1062.7	1066.4	1116.2	1115.0	1315.3	1759.5	1716.0	1373.8	1015.4	579.9
67.5°	725.5	744.1	759.1	909.6	986.8	915.9	849.9	825.0	446.7	187.9	128.2
70°	408.2	410.6	426.8	568.7	749.1	710.5	586.1	586.1	222.7	68.4	73.4
72.5°	222.7	215.3	200.3	245.1	333.5	338.5	261.3	227.7	66.0	44.8	41.1
75°	108.3	107.0	92.1	75.9	72.2	59.7	46.0	42.3	29.9	28.6	24.9
77.5°	22.4	21.2	11.2	11.2	12.4	13.7	17.4	17.4	21.2	21.2	17.4
80°	0.0	0.0	1.2	5.0	8.7	12.4	14.9	14.9	17.4	17.4	13.7
82.5°	0.0	0.0	1.2	3.7	7.5	11.2	13.7	14.9	17.4	18.7	14.9
85°	0.0	0.0	0.0	2.5	6.2	8.7	7.5	7.5	6.2	5.0	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P527297
 CATALOG NUMBER: GALN-SA2B-740-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9	2947.9
2.5°	2904.4	2901.9	2844.6	2812.3	2753.8	2702.8	2661.7	2631.8	2631.8	2613.2	2595.8
5°	2822.2	2801.1	2679.1	2600.7	2490.0	2407.9	2351.9	2308.3	2239.9	2258.5	2185.1
7.5°	2720.2	2666.7	2504.9	2385.5	2232.4	2115.4	1996.0	1890.2	1788.2	1742.1	1767.0
10°	2610.7	2517.4	2299.6	2110.5	1920.1	1706.0	1566.7	1397.4	1292.9	1286.7	1259.3
12.5°	2495.0	2389.2	2124.1	1862.8	1612.7	1355.1	1142.3	984.3	913.4	835.0	849.9
15°	2407.9	2251.1	1928.8	1613.9	1281.7	1021.6	807.6	685.6	618.5	599.8	593.6
17.5°	2313.3	2145.3	1729.7	1348.9	1005.5	735.4	581.1	522.6	496.5	496.5	492.8
20°	2215.0	2025.8	1531.8	1102.5	754.1	548.8	465.4	446.7	445.5	444.2	444.2
22.5°	2150.3	1889.0	1352.6	876.0	568.7	439.3	404.4	397.0	401.9	416.9	416.9
25°	2081.8	1757.1	1154.8	675.7	440.5	377.0	357.1	362.1	374.6	388.2	383.3
27.5°	2012.1	1671.2	968.1	530.1	360.9	329.8	322.3	333.5	347.2	359.6	355.9
30°	1996.0	1579.1	791.4	401.9	309.8	287.4	292.4	302.4	316.1	321.0	326.0
32.5°	2020.9	1506.9	648.3	329.8	270.0	263.8	263.8	268.8	277.5	288.7	285.0
35°	2091.8	1465.9	512.7	286.2	247.6	241.4	240.2	245.1	250.1	253.9	250.1
37.5°	2200.0	1433.5	419.4	253.9	232.7	222.7	220.3	219.0	224.0	225.2	227.7
40°	2338.2	1450.9	355.9	233.9	217.8	206.6	199.1	199.1	199.1	202.8	204.1
42.5°	2487.5	1474.6	307.4	222.7	204.1	190.4	182.9	180.4	182.9	187.9	186.7
45°	2644.3	1520.6	276.3	205.3	191.6	174.2	164.3	161.8	168.0	177.9	176.7
47.5°	2791.1	1586.6	252.6	194.1	179.2	163.0	150.6	148.1	159.3	173.0	174.2
50°	2938.0	1701.1	243.9	185.4	170.5	151.8	140.6	138.1	150.6	168.0	171.7
52.5°	3107.2	1824.2	237.7	174.2	160.5	143.1	130.7	128.2	141.9	164.3	165.5
55°	3217.9	1928.8	232.7	154.3	141.9	129.4	119.5	118.2	133.1	153.1	158.0
57.5°	3088.5	1783.2	215.3	134.4	120.7	114.5	105.8	105.8	118.2	136.9	140.6
60°	2341.9	1173.4	153.1	108.3	102.0	98.3	94.6	94.6	104.5	118.2	119.5
62.5°	1371.3	632.1	98.3	87.1	87.1	83.4	77.2	77.2	87.1	94.6	95.8
65°	406.9	202.8	79.6	74.7	73.4	67.2	61.0	59.7	67.2	70.9	69.7
67.5°	117.0	93.3	66.0	62.2	61.0	51.0	47.3	46.0	47.3	44.8	43.6
70°	69.7	63.5	51.0	52.3	46.0	37.3	33.6	32.4	29.9	26.1	23.6
72.5°	38.6	38.6	37.3	39.8	32.4	24.9	21.2	17.4	13.7	11.2	10.0
75°	23.6	24.9	26.1	27.4	21.2	16.2	13.7	8.7	5.0	2.5	2.5
77.5°	16.2	17.4	18.7	19.9	17.4	14.9	11.2	6.2	1.2	0.0	0.0
80°	12.4	13.7	16.2	17.4	18.7	19.9	14.9	6.2	1.2	0.0	0.0
82.5°	13.7	14.9	18.7	17.4	17.4	17.4	13.7	6.2	1.2	0.0	0.0
85°	2.5	3.7	6.2	6.2	8.7	11.2	8.7	2.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)