

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: P532686

Luminaire Tested: **GALN-SA8A-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532686
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-SA8A-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30974 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

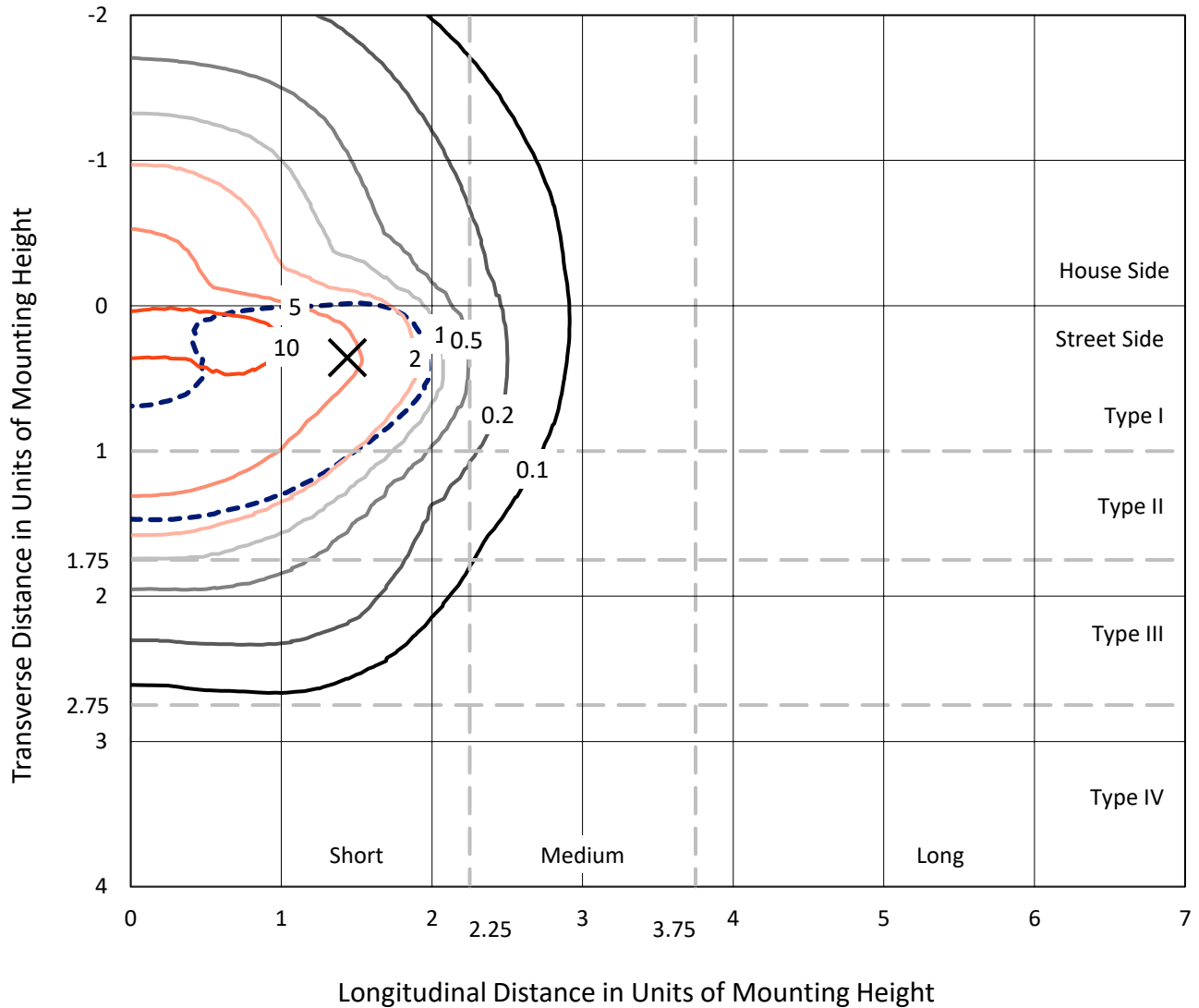
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

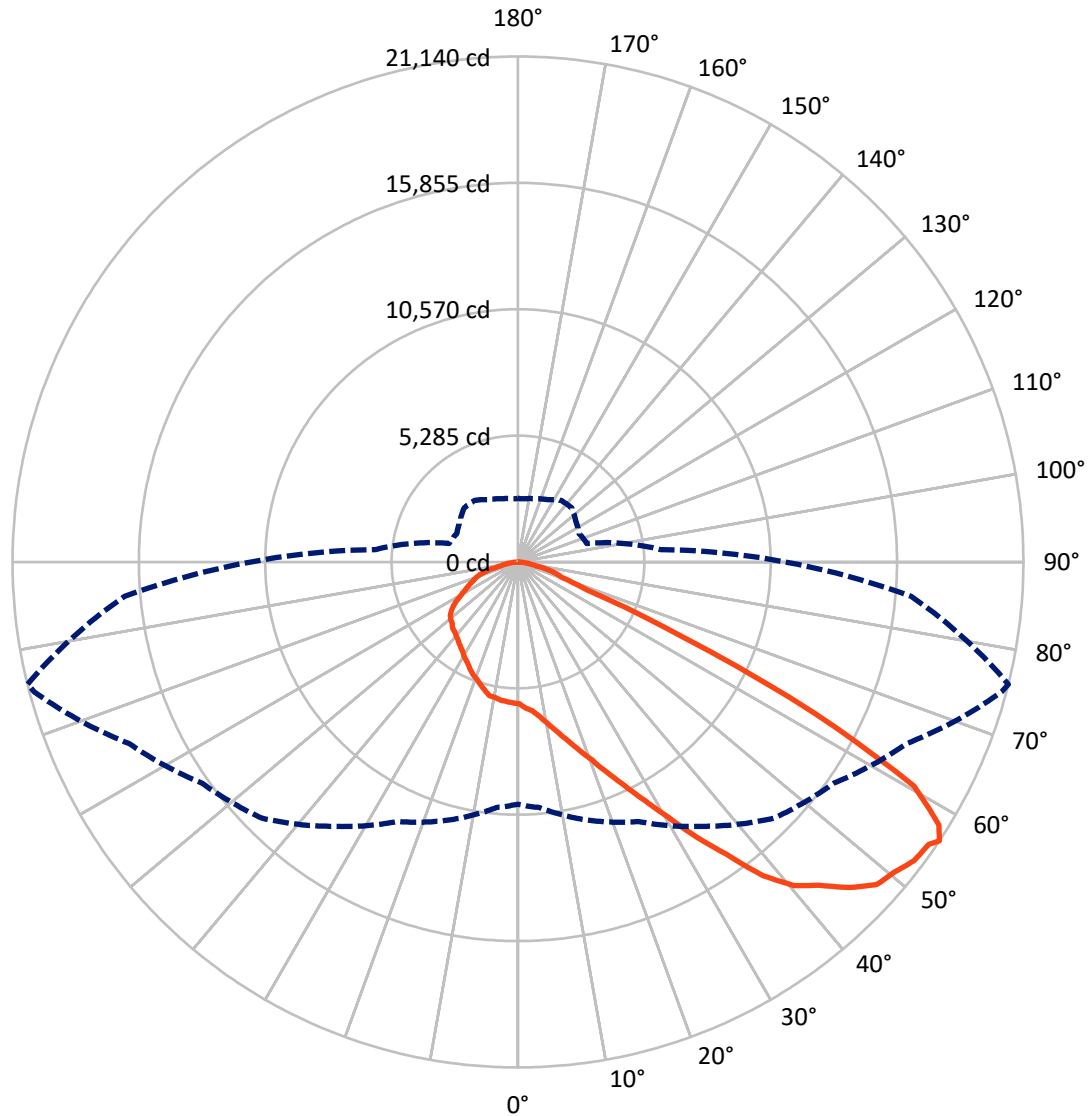
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	8328.0	0.0	8328.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22646.0	0.0	22646.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	30974.0	0.0	30974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.7	1.9
10°-20°	1846.2	6.0
20°-30°	3228.8	10.4
30°-40°	5055.4	16.3
40°-50°	7354.2	23.7
50°-60°	8082.7	26.1
60°-70°	3607.8	11.6
70°-80°	1042.1	3.4
80°-90°	169.0	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°	30974.0	100.0
0°-180°	30974.0	100.0

Coefficient of Utilization



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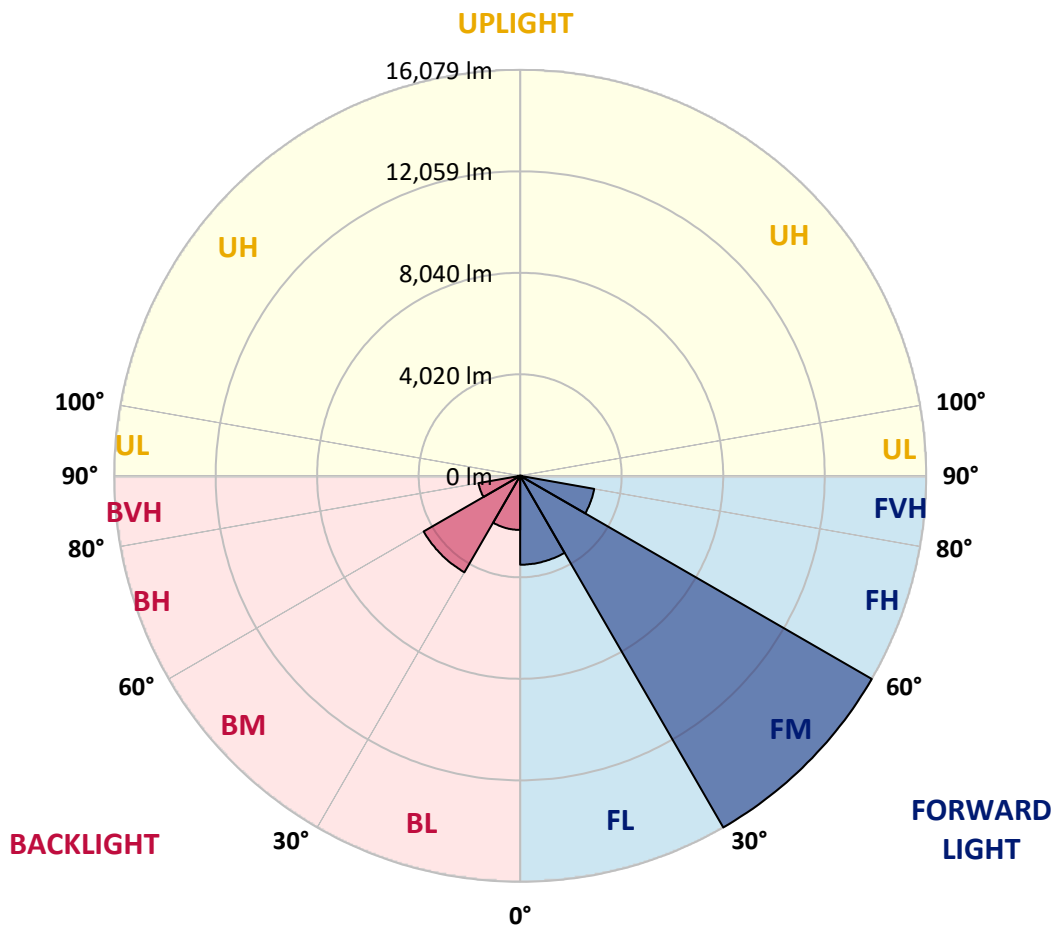
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3519.8	11.4			
FM (30°-60°)	16079.2	51.9			
FH (60°-80°)	2974.2	9.6			G2/5000
FVH (80°-90°)	72.8	0.2			G1/100
BL (0°-30°)	2142.9	6.9	B3/2500		
BM (30°-60°)	4413.2	14.2	B3/5000		
BH (60°-80°)	1675.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	96.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5
2.5°	6528.8	6424.4	6416.3	6388.2	6404.3	6332.0	6255.7	6155.3	6050.9	6115.2	5962.6
5°	6986.5	6846.0	6902.2	6805.8	6817.9	6721.5	6564.9	6448.5	6320.0	6243.7	6135.3
7.5°	7147.1	7159.2	7199.3	7183.2	7102.9	7102.9	6998.5	6793.8	6568.9	6524.7	6344.1
10°	7363.9	7367.9	7323.8	7335.8	7448.2	7396.1	7303.7	7215.4	6926.3	6874.1	6552.9
12.5°	7440.2	7367.9	7440.2	7504.5	7637.0	7709.2	7689.2	7624.9	7315.7	7279.6	6809.8
15°	7452.3	7408.1	7468.3	7612.9	7729.3	8034.5	8187.1	8142.9	7733.3	7737.3	7098.9
17.5°	7396.1	7456.3	7480.4	7604.8	7873.9	8158.9	8600.6	8660.8	8323.6	8271.4	7464.3
20°	7472.3	7428.2	7460.3	7572.7	7930.1	8375.8	8954.0	9351.5	8877.7	8841.5	7841.7
22.5°	7765.5	7705.2	7697.2	7769.5	8026.4	8488.2	9327.4	10042.1	9552.2	9572.3	8311.5
25°	7994.3	8026.4	7998.3	7994.3	8154.9	8656.8	9821.2	10865.2	10467.7	10351.3	8865.6
27.5°	8387.8	8464.1	8407.9	8484.2	8448.0	8909.8	10174.6	11776.7	11455.4	11298.9	9367.5
30°	8933.9	8974.0	8921.8	8921.8	8813.4	9263.1	10495.8	12728.3	12595.8	12383.0	9957.8
32.5°	9652.6	9712.8	9608.4	9548.2	9532.2	9789.1	11074.0	13667.8	13892.7	13712.0	10740.7
35°	10604.2	10568.1	10443.6	10387.4	10170.6	10596.2	11933.3	14747.9	15338.2	15017.0	11688.3
37.5°	11443.4	11387.2	11379.2	11066.0	11118.2	11467.5	12664.0	15567.0	16739.5	16647.1	12688.1
40°	12226.4	12278.6	12362.9	12186.2	12105.9	12491.4	13515.3	16193.4	17827.6	17791.5	13459.0
42.5°	13065.6	13017.4	13165.9	13017.4	12896.9	13443.0	14438.8	16627.1	18783.2	18486.1	14266.1
45°	14282.2	14129.6	14181.8	14193.8	14105.5	14306.3	14820.2	16940.2	19453.8	19421.7	14856.3
47.5°	15298.0	15302.0	15213.7	15145.4	14876.4	15077.2	15245.8	17137.0	20224.7	20172.5	15085.2
50°	15675.5	15623.3	15880.2	16028.8	16044.9	15635.3	15579.1	17245.4	20630.2	20401.4	15314.1
52.5°	14318.3	14366.5	14772.0	15655.4	16165.3	16209.5	15968.6	17470.3	20794.9	20746.7	15498.8
55°	11523.7	11756.6	12423.1	13443.0	14651.6	15980.6	16390.2	17703.1	20883.2	20843.1	16317.9
56°	10130.4	10311.1	11178.4	11977.4	13495.2	15149.5	16125.2	17952.1	20951.5	21140.2	16510.6
57.5°	8154.9	8363.7	8986.1	9893.5	11684.3	13567.5	15394.4	17646.9	20686.5	20758.7	16651.2
60°	5099.3	5119.4	5866.2	6464.5	7725.3	9564.3	11748.6	15354.2	19144.6	19040.2	14956.7
62.5°	3344.7	3348.7	4027.3	4517.1	5091.3	5512.9	6914.2	10182.6	14125.6	13940.9	10648.4
65°	2348.9	2401.1	2927.1	3581.6	3814.5	3593.6	3549.5	5368.4	7889.9	7624.9	5721.7
67.5°	1718.5	1722.5	2188.3	2891.0	3228.2	2734.4	2220.4	2621.9	3123.8	3115.8	2650.1
70°	1136.3	1184.5	1541.8	2160.2	2545.7	2196.3	1814.9	1875.1	1987.5	1987.5	1971.5
72.5°	662.5	706.7	943.6	1369.2	1429.4	1373.2	1437.5	1606.1	1678.4	1674.4	1654.3
75°	377.4	397.5	449.7	570.2	710.7	839.2	1056.0	1216.6	1288.9	1333.1	1280.9
77.5°	220.8	232.9	265.0	325.2	369.4	453.7	574.2	686.6	783.0	770.9	779.0
80°	116.4	116.4	148.6	192.7	257.0	321.2	381.4	445.7	497.9	509.9	522.0
82.5°	68.3	72.3	96.4	140.5	184.7	228.9	293.1	337.3	385.5	389.5	397.5
85°	36.1	40.2	60.2	92.4	124.5	140.5	144.5	136.5	148.6	140.5	160.6
87.5°	12.0	12.0	20.1	16.1	16.1	20.1	24.1	24.1	32.1	32.1	32.1
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°	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5	5926.5
2.5°	5958.6	5958.6	5890.3	5761.9	5741.8	5689.6	5641.4	5637.4	5601.2	5569.1	5553.1
5°	6071.0	5946.6	5846.2	5729.7	5593.2	5529.0	5456.7	5376.4	5344.3	5376.4	5372.4
7.5°	6199.5	6095.1	5794.0	5577.2	5420.6	5356.3	5276.0	5191.7	5199.7	5199.7	5143.5
10°	6324.0	6183.5	5701.6	5424.6	5195.7	5147.5	5103.4	5135.5	5175.6	5183.7	5147.5
12.5°	6532.8	6215.6	5657.5	5272.0	5127.4	5023.1	5051.2	5139.5	5223.8	5199.7	5227.8
15°	6689.4	6243.7	5456.7	5115.4	4934.7	4982.9	5083.3	5143.5	5284.0	5268.0	5296.1
17.5°	6841.9	6259.7	5259.9	4906.6	4830.3	4962.8	5039.1	5211.8	5255.9	5352.3	5388.4
20°	7155.1	6291.9	5059.2	4778.1	4754.0	4906.6	5039.1	5119.4	5215.8	5300.1	5300.1
22.5°	7315.7	6275.8	4926.7	4609.5	4685.8	4782.1	4902.6	5039.1	5039.1	5119.4	5123.4
25°	7516.5	6211.6	4717.9	4529.2	4585.4	4677.7	4814.3	4766.1	4818.3	4818.3	4882.5
27.5°	7745.4	6075.0	4537.2	4384.6	4497.1	4597.4	4617.5	4585.4	4525.2	4517.1	4493.0
30°	7930.1	5906.4	4404.7	4336.4	4428.8	4485.0	4420.8	4352.5	4248.1	4240.1	4183.9
32.5°	8183.0	5697.6	4240.1	4216.0	4320.4	4324.4	4304.3	4199.9	4047.4	3983.1	3918.9
35°	8608.6	5577.2	4115.6	4151.7	4183.9	4171.8	4135.7	4023.3	3870.7	3842.6	3818.5
37.5°	8921.8	5488.8	3987.1	4031.3	4059.4	4075.5	3967.0	3842.6	3846.6	3790.4	3774.3
40°	9275.2	5432.6	3882.7	3902.8	3906.8	3959.0	3826.5	3766.3	3794.4	3758.3	3782.3
42.5°	9728.9	5448.7	3774.3	3758.3	3834.5	3814.5	3750.2	3669.9	3686.0	3577.6	3593.6
45°	9969.8	5557.1	3710.1	3637.8	3722.1	3718.1	3633.8	3557.5	3461.1	3252.3	3260.4
47.5°	10130.4	5585.2	3557.5	3509.3	3597.6	3649.8	3553.5	3376.8	3240.3	3091.7	3055.6
50°	10295.0	5637.4	3485.2	3384.8	3421.0	3545.4	3425.0	3256.4	3123.8	2991.3	3011.4
52.5°	10439.6	5737.8	3344.7	3196.1	3260.4	3396.9	3332.6	3127.9	2983.3	2874.9	2842.8
55°	11082.0	5962.6	3107.8	2915.1	3067.6	3240.3	3204.2	2955.2	2798.6	2742.4	2734.4
56°	11182.4	5970.6	2983.3	2818.7	2959.2	3188.1	3143.9	2878.9	2738.4	2650.1	2654.1
57.5°	11198.5	5874.3	2806.6	2730.4	2850.8	3111.8	3055.6	2818.7	2626.0	2545.7	2521.6
60°	9853.4	4585.4	2585.8	2537.6	2678.2	2878.9	2858.8	2654.1	2437.2	2344.9	2389.1
62.5°	6717.5	3360.7	2413.2	2405.1	2477.4	2674.1	2621.9	2437.2	2256.6	2196.3	2168.2
65°	3910.8	2549.7	2244.5	2212.4	2272.6	2377.0	2413.2	2220.4	2031.7	1991.6	1979.5
67.5°	2308.8	2108.0	2027.7	1975.5	1955.4	2019.7	2047.8	1935.3	1746.6	1690.4	1738.6
70°	1931.3	1875.1	1879.1	1790.8	1742.6	1698.4	1674.4	1574.0	1417.4	1345.1	1325.0
72.5°	1666.3	1642.2	1626.2	1545.9	1501.7	1401.3	1296.9	1196.5	1080.1	1019.9	1023.9
75°	1272.8	1264.8	1272.8	1232.7	1156.4	1076.1	979.7	851.2	762.9	686.6	702.7
77.5°	758.9	783.0	795.0	779.0	746.8	674.6	614.3	530.0	445.7	385.5	377.4
80°	522.0	542.1	562.1	542.1	509.9	457.7	393.5	329.2	269.0	236.9	228.9
82.5°	397.5	417.6	429.6	409.6	369.4	313.2	269.0	224.9	176.7	144.5	136.5
85°	144.5	164.6	160.6	192.7	208.8	200.8	172.7	132.5	100.4	72.3	68.3
87.5°	40.2	36.1	40.2	40.2	40.2	36.1	32.1	32.1	32.1	20.1	16.1
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)