

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: P530220

Luminaire Tested: **GALN-SA5B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19306 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 204
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

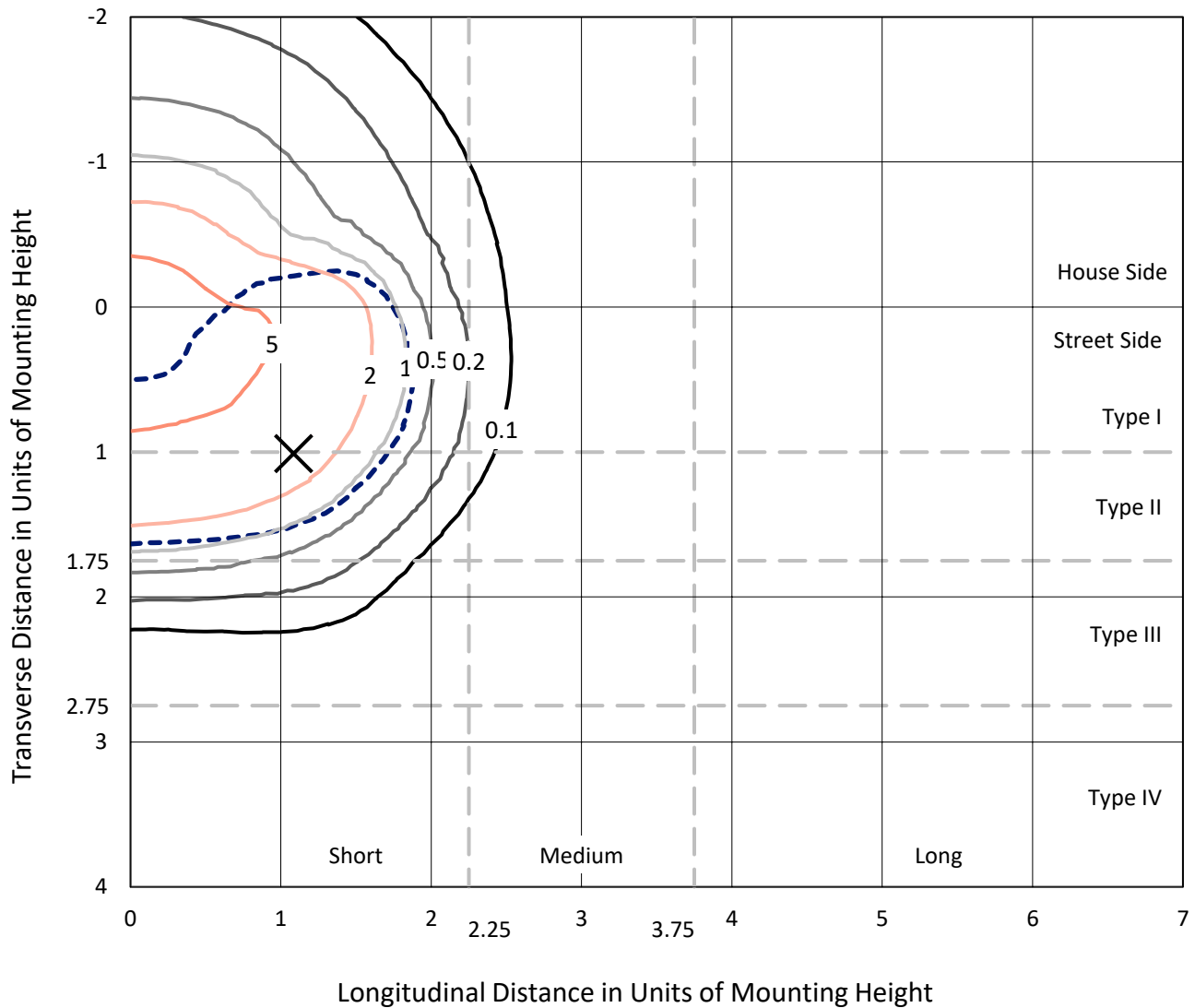


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Iso-Footcandle Lines of Horizontal Illumination

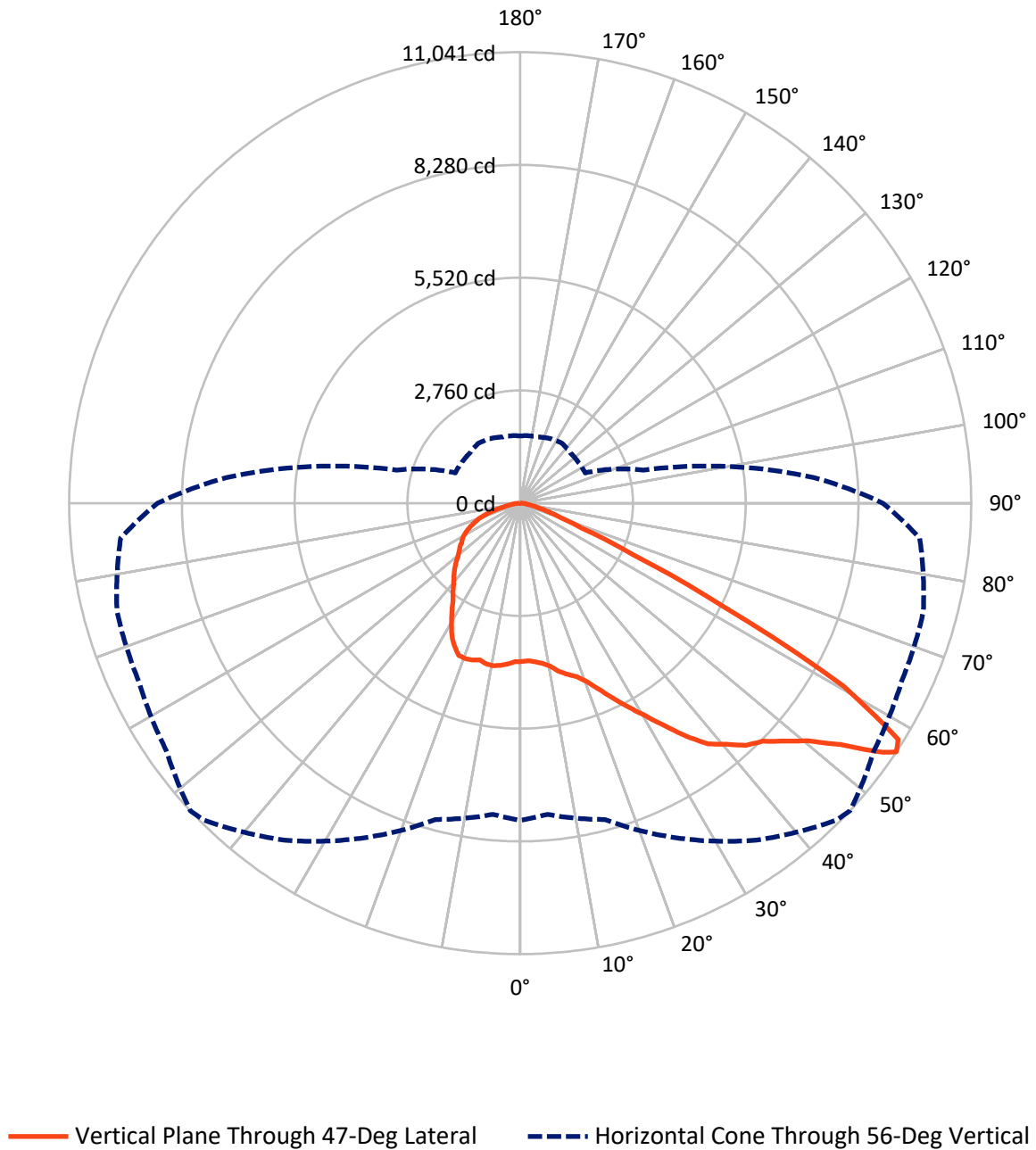
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6117.8	0.0	6117.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13188.2	0.0	13188.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	19306.0	0.0	19306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.9	2.0
10°-20°	1191.9	6.2
20°-30°	2107.1	10.9
30°-40°	3164.8	16.4
40°-50°	4343.3	22.5
50°-60°	5174.5	26.8
60°-70°	2214.4	11.5
70°-80°	626.7	3.2
80°-90°	105.5	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°	19306.0	100.0
0°-180°	19306.0	100.0

Coefficient of Utilization



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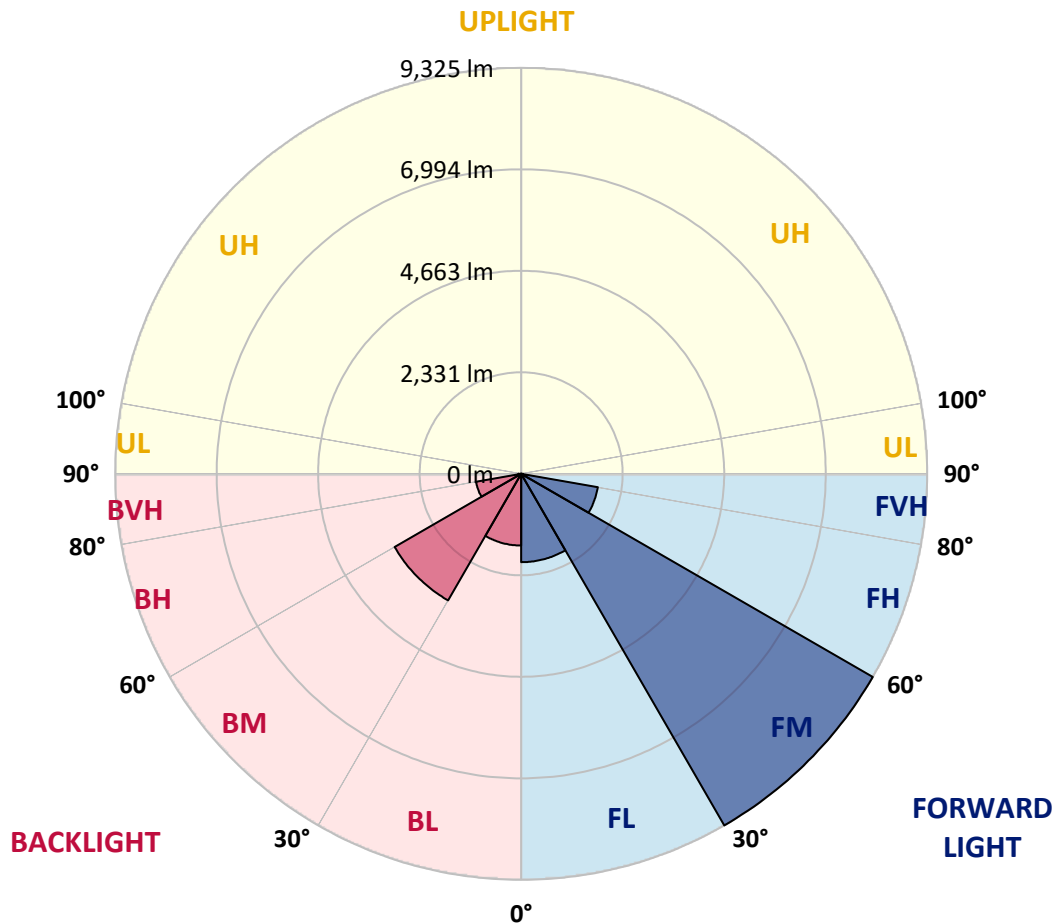
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2029.7	10.5			
FM	(30°-60°)	9325.2	48.3			
FH	(60°-80°)	1788.4	9.3			G1/1800
FVH	(80°-90°)	44.8	0.2			G1/100
BL	(0°-30°)	1647.2	8.5	B3/2500		
BM	(30°-60°)	3357.4	17.4	B3/5000		
BH	(60°-80°)	1052.6	5.5	B3/2500		G3/2500
BVH	(80°-90°)	60.7	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°	47°	55°	65°	75°	85°
0°	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0
2.5°	3863.2	3855.8	3850.9	3890.3	3875.5	3878.0	3863.2	3878.0	3887.8	3865.7	3897.7
5°	3855.8	3878.0	3858.3	3870.6	3902.6	3892.8	3902.6	3932.2	3924.8	3917.4	3907.5
7.5°	3924.8	3927.2	3942.0	3946.9	3956.8	3946.9	3961.7	3988.8	3981.4	3939.5	3944.5
10°	4023.3	4028.2	4030.6	4057.7	4075.0	4077.4	4060.2	4035.6	4033.1	4089.7	4050.3
12.5°	4136.5	4124.2	4153.8	4163.6	4183.3	4205.5	4227.6	4175.9	4207.9	4210.4	4163.6
15°	4301.5	4313.8	4279.3	4279.3	4286.7	4289.2	4350.7	4326.1	4321.2	4294.1	4313.8
17.5°	4547.7	4464.0	4461.5	4427.1	4422.1	4441.8	4464.0	4483.7	4550.2	4496.0	4390.1
20°	4727.5	4747.2	4675.7	4633.9	4641.3	4685.6	4663.4	4752.1	4798.9	4710.2	4606.8
22.5°	5045.1	4978.6	4995.8	4902.3	4909.7	4956.4	4954.0	5045.1	5072.2	4931.8	4781.6
25°	5259.3	5242.1	5256.8	5183.0	5192.8	5229.7	5288.8	5439.0	5394.7	5239.6	4892.4
27.5°	5572.0	5537.5	5525.2	5498.1	5488.3	5586.8	5655.7	5815.8	5783.7	5557.2	5089.4
30°	5892.1	5869.9	5882.2	5771.4	5810.8	6020.1	6039.8	6259.0	6244.2	5845.3	5308.5
32.5°	6113.7	6126.0	6148.2	6086.6	6261.4	6428.8	6495.3	6744.0	6756.3	6340.2	5732.0
35°	6470.7	6428.8	6441.2	6512.6	6593.8	6899.1	7007.5	7172.4	7275.8	6859.7	6138.3
37.5°	6694.8	6739.1	6687.4	6800.6	7012.4	7379.3	7477.7	7647.6	7756.0	7371.9	6692.3
40°	7044.4	6973.0	7009.9	7091.2	7307.9	7785.5	7758.4	7933.3	7967.7	7807.7	7209.4
42.5°	7421.1	7386.6	7334.9	7519.6	7701.8	8049.0	8103.2	8021.9	8196.7	8233.6	7948.0
45°	7871.7	7913.6	7920.9	7925.9	8085.9	8388.8	8314.9	8243.5	8445.4	8713.8	8406.0
47.5°	8290.3	8157.3	8253.3	8386.3	8612.8	8615.3	8701.5	8531.6	8745.8	8984.6	8819.7
50°	8430.6	8366.6	8494.6	8745.8	9095.4	9132.4	9142.2	8900.9	9011.7	9201.3	8962.5
52.5°	8376.5	8354.3	8681.8	9070.8	9582.9	9770.1	9819.3	9521.4	9582.9	9496.8	9277.6
55°	8117.9	8184.4	8514.3	9307.2	10092.6	10671.2	10764.8	10388.1	9996.6	10063.1	9821.8
56°	7763.4	7647.6	8017.0	9038.8	10070.5	10964.2	11040.6	10570.3	10304.4	10218.2	9816.9
57.5°	6586.4	6436.2	6921.3	8132.7	9511.5	10853.4	10910.1	10646.6	10252.7	10077.8	9100.3
60°	3855.8	3929.7	4545.2	5608.9	7337.4	8898.4	9088.0	9280.1	9016.6	8233.6	6773.6
62.5°	1861.4	1814.7	2255.4	3215.7	4471.4	5680.3	5623.7	6162.9	6458.4	5850.2	4276.9
65°	975.0	970.1	1231.1	1755.6	2457.3	2984.2	3035.9	3326.5	3732.7	3013.8	2171.7
67.5°	716.5	736.2	866.7	1233.6	1580.7	1612.8	1605.4	1750.6	1790.0	1514.3	1334.5
70°	561.4	571.2	667.3	938.1	1176.9	1053.8	1031.7	1048.9	1164.6	1213.9	1154.8
72.5°	406.3	416.1	497.4	632.8	736.2	719.0	733.7	829.8	972.6	1024.3	962.7
75°	270.8	278.2	322.6	386.6	435.8	470.3	497.4	608.2	741.1	770.7	741.1
77.5°	187.1	194.5	224.1	273.3	278.2	300.4	310.2	361.9	443.2	480.1	460.4
80°	105.9	105.9	120.6	140.3	172.4	201.9	206.8	248.7	285.6	310.2	315.2
82.5°	49.2	51.7	64.0	86.2	113.3	140.3	145.3	172.4	199.4	224.1	231.4
85°	24.6	27.1	36.9	51.7	68.9	83.7	81.3	83.7	88.6	83.7	86.2
87.5°	7.4	7.4	9.8	12.3	9.8	12.3	12.3	14.8	17.2	19.7	22.2
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°	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0	3878.0
2.5°	3900.1	3907.5	3858.3	3905.1	3887.8	3885.4	3919.8	3914.9	3927.2	3922.3	3892.8
5°	3902.6	3885.4	3937.1	3890.3	3912.5	3959.2	3927.2	4001.1	3964.2	3988.8	3934.6
7.5°	3978.9	3983.9	3974.0	3993.7	3983.9	4006.0	3988.8	4006.0	3976.5	3978.9	4028.2
10°	4045.4	4030.6	4047.9	4023.3	4040.5	4033.1	3993.7	3981.4	3991.3	3978.9	4010.9
12.5°	4168.5	4141.4	4129.1	4099.6	4079.9	4006.0	3944.5	3910.0	3956.8	3964.2	3949.4
15°	4294.1	4296.6	4239.9	4173.5	4050.3	3939.5	3954.3	3966.6	3966.6	3986.3	3949.4
17.5°	4372.9	4372.9	4321.2	4188.2	4062.7	3998.6	3983.9	3944.5	3910.0	3905.1	3902.6
20°	4510.8	4468.9	4350.7	4185.8	4057.7	4028.2	3917.4	3823.8	3752.4	3727.8	3725.3
22.5°	4668.4	4562.5	4397.5	4190.7	4050.3	4008.5	3801.7	3661.3	3533.3	3479.1	3486.5
25°	4813.6	4643.7	4424.6	4168.5	4023.3	3821.4	3589.9	3395.4	3262.4	3218.1	3196.0
27.5°	4914.6	4729.9	4424.6	4188.2	3922.3	3612.1	3375.7	3127.0	3011.3	2981.7	2986.7
30°	5050.0	4838.3	4500.9	4146.4	3720.4	3341.2	3058.1	2895.6	2826.6	2802.0	2819.2
32.5°	5367.6	5121.4	4606.8	4045.4	3481.6	3070.4	2841.4	2750.3	2649.3	2600.1	2582.9
35°	5712.3	5389.8	4710.2	3875.5	3213.2	2824.2	2681.4	2597.6	2477.0	2422.8	2432.7
37.5°	6199.9	5734.5	4717.6	3594.8	2922.6	2686.3	2555.8	2425.3	2326.8	2243.1	2218.5
40°	6857.3	6204.8	4700.4	3299.4	2688.7	2523.8	2427.7	2265.2	2154.4	2095.3	2107.7
42.5°	7435.9	6756.3	4629.0	2964.5	2477.0	2413.0	2304.6	2144.6	2036.3	1974.7	1969.8
45°	7923.4	7162.6	4493.5	2678.9	2299.7	2289.9	2164.3	2041.2	1955.0	1898.4	1923.0
47.5°	8374.0	7490.1	4289.2	2393.3	2137.2	2156.9	2036.3	1959.9	1905.8	1854.0	1851.6
50°	8536.5	7485.1	4109.4	2156.9	2006.7	1996.9	1991.9	1910.7	1854.0	1809.7	1829.4
52.5°	8807.3	7568.8	3914.9	1994.4	1888.5	1891.0	1908.2	1849.1	1785.1	1758.0	1782.6
55°	9196.4	7581.2	3486.5	1804.8	1790.0	1807.3	1807.3	1767.9	1713.7	1691.5	1679.2
56°	8878.7	7214.3	3127.0	1755.6	1740.8	1740.8	1787.6	1743.2	1676.8	1659.5	1644.8
57.5°	8189.3	6320.5	2617.3	1696.5	1674.3	1708.8	1733.4	1686.6	1625.1	1600.4	1615.2
60°	5648.3	4276.9	1967.3	1568.4	1568.4	1625.1	1644.8	1575.8	1548.7	1546.3	1526.6
62.5°	3296.9	2491.8	1538.9	1452.7	1457.6	1504.4	1519.2	1479.8	1445.3	1487.2	1506.9
65°	1748.2	1487.2	1319.7	1329.6	1332.1	1369.0	1433.0	1430.5	1428.1	1440.4	1442.9
67.5°	1265.6	1236.0	1199.1	1189.2	1194.2	1221.3	1285.3	1334.5	1332.1	1302.5	1280.4
70°	1127.7	1085.8	1063.7	1066.1	1046.4	1078.5	1130.2	1162.2	1105.5	1071.1	1056.3
72.5°	938.1	925.8	911.0	913.5	874.1	866.7	807.6	807.6	792.8	783.0	800.2
75°	716.5	711.6	719.0	706.7	664.8	620.5	586.0	554.0	504.8	485.1	475.2
77.5°	453.0	467.8	485.1	458.0	440.7	408.7	374.3	342.2	302.9	280.7	280.7
80°	307.8	320.1	332.4	327.5	307.8	278.2	251.1	216.7	189.6	172.4	169.9
82.5°	233.9	243.8	261.0	241.3	221.6	197.0	174.8	150.2	125.6	105.9	105.9
85°	83.7	96.0	105.9	115.7	123.1	125.6	108.3	88.6	71.4	56.6	54.2
87.5°	22.2	24.6	27.1	24.6	24.6	24.6	27.1	24.6	22.2	17.2	17.2
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)