

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: P530222

Luminaire Tested: **GALN-SA5B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19767 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

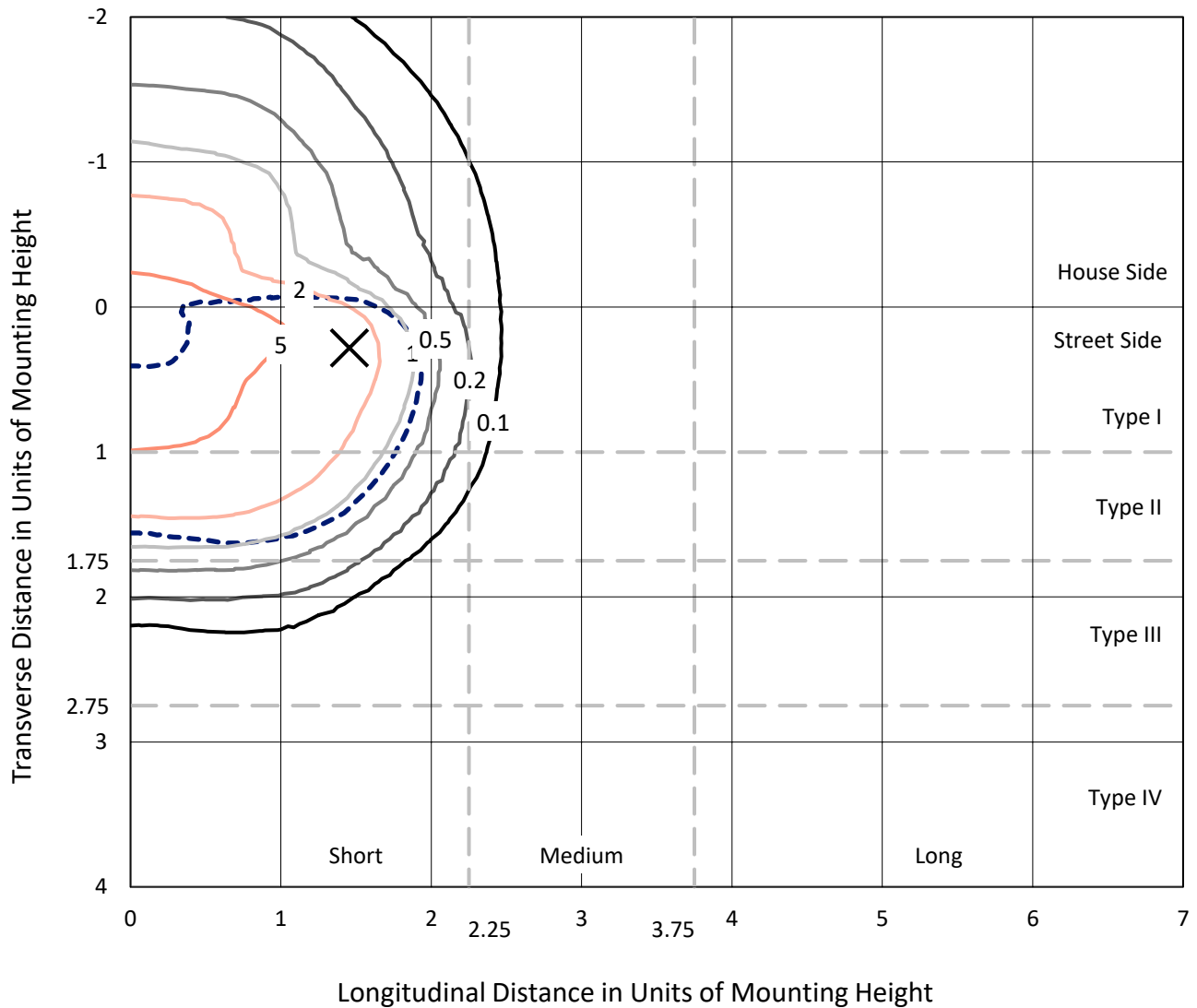
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

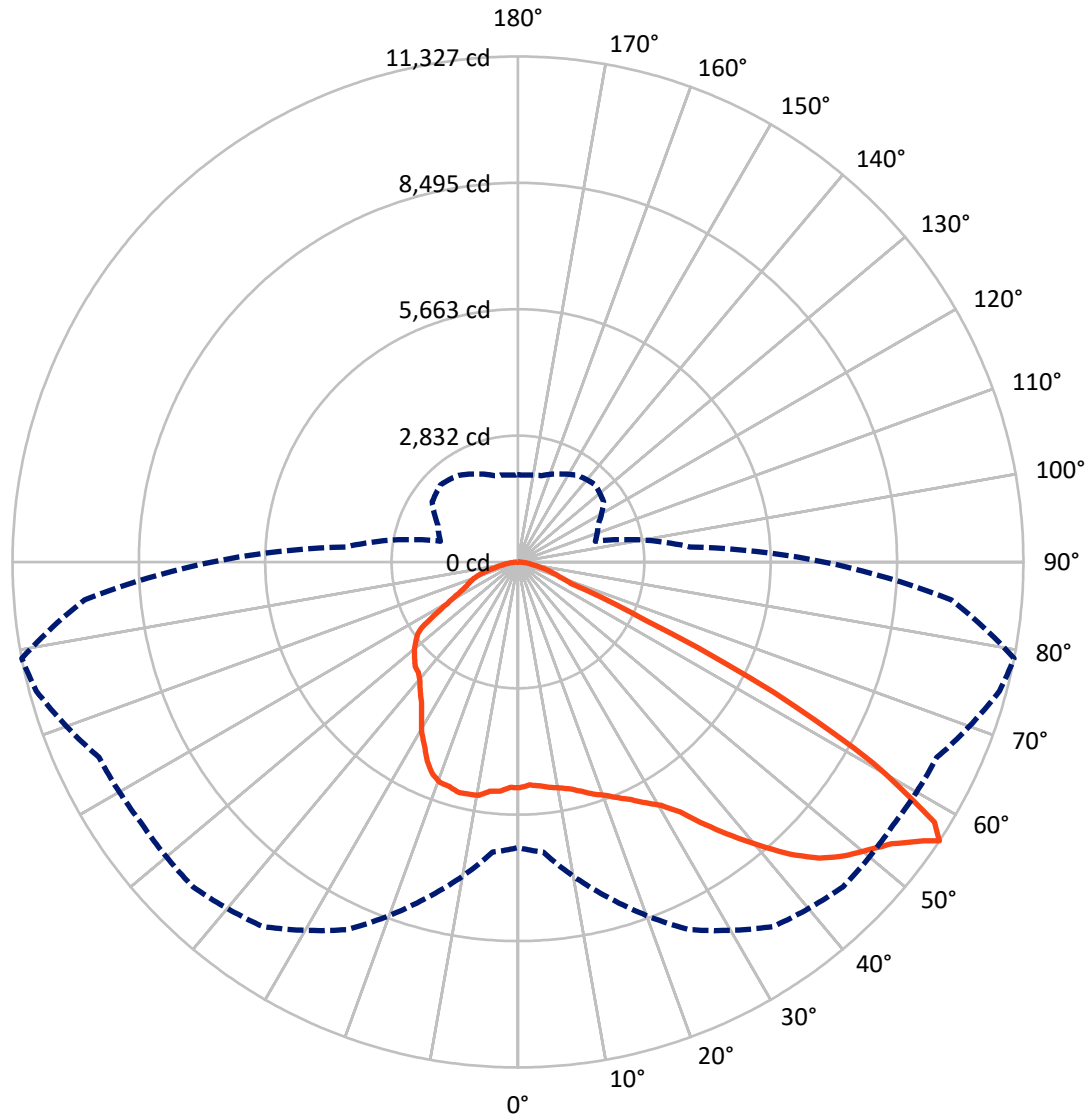
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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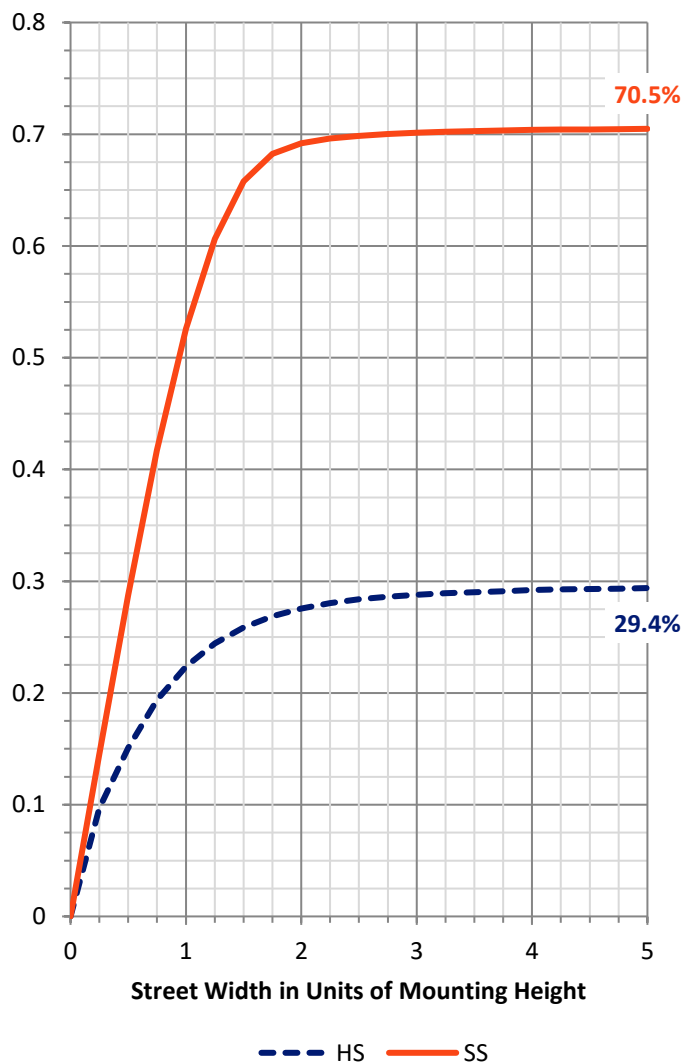
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5837.6	0.0	5837.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13929.4	0.0	13929.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	19767.0	0.0	19767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.8	2.3
10°-20°	1258.4	6.4
20°-30°	2152.9	10.9
30°-40°	3299.6	16.7
40°-50°	4459.4	22.6
50°-60°	5121.8	25.9
60°-70°	2334.7	11.8
70°-80°	575.6	2.9
80°-90°	104.6	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°	19767.0	100.0
0°-180°	19767.0	100.0

Coefficient of Utilization



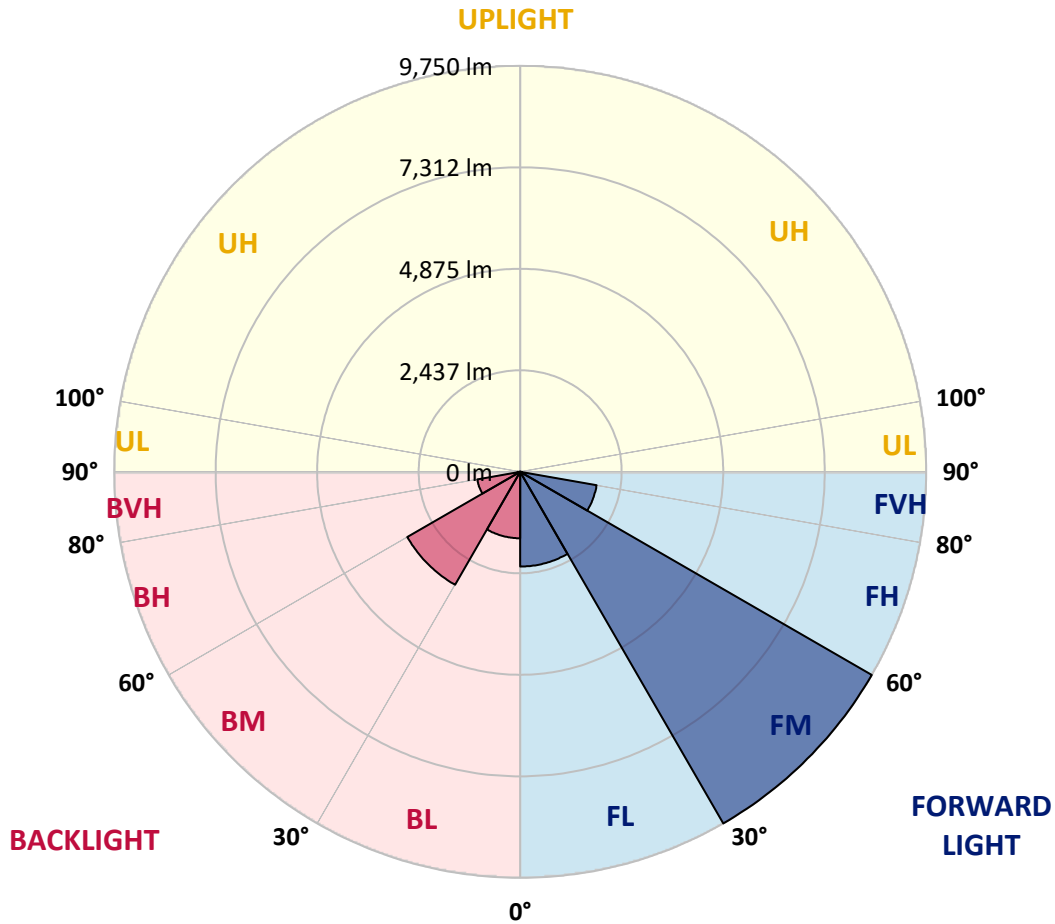
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2274.4	11.5			
FM (30°-60°)	9749.7	49.3			
FH (60°-80°)	1863.6	9.4			G2/5000
FVH (80°-90°)	41.8	0.2			G1/100
BL (0°-30°)	1596.8	8.1	B3/2500		
BM (30°-60°)	3131.2	15.8	B3/5000		
BH (60°-80°)	1046.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.8	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°	79°	85°
0°	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6
2.5°	4811.4	4799.0	4828.6	4850.8	4877.8	4912.3	4929.6	4939.4	5025.6	5003.4	5069.9
5°	4707.9	4675.9	4698.1	4715.3	4762.1	4804.0	4850.8	4924.6	5003.4	5037.9	5119.2
7.5°	4616.8	4599.6	4594.7	4607.0	4671.0	4725.2	4806.4	4914.8	5042.8	5099.5	5146.2
10°	4466.6	4442.0	4478.9	4560.2	4577.4	4690.7	4784.3	4939.4	5050.2	5148.7	5286.6
12.5°	4400.2	4375.5	4382.9	4429.7	4550.4	4658.7	4769.5	4944.3	5178.2	5217.6	5402.3
15°	4506.0	4481.4	4488.8	4476.5	4592.2	4648.8	4823.7	5042.8	5266.9	5333.4	5530.4
17.5°	4747.3	4749.8	4717.8	4690.7	4663.6	4784.3	4904.9	5101.9	5301.4	5468.8	5616.5
20°	5207.8	5126.5	5062.5	4909.9	4868.0	4919.7	5072.4	5262.0	5441.7	5579.6	5747.0
22.5°	5562.4	5569.8	5478.6	5227.5	5136.4	5158.5	5289.1	5444.2	5641.2	5739.7	5931.7
25°	6077.0	6025.3	5926.8	5727.3	5523.0	5540.2	5636.2	5776.6	5830.8	5899.7	6109.0
27.5°	6547.3	6562.1	6367.5	6180.4	5926.8	5877.5	6049.9	6074.5	5983.4	6113.9	6185.3
30°	7025.0	7012.7	6884.6	6665.5	6416.8	6426.6	6503.0	6382.3	6256.7	6328.1	6377.4
32.5°	7519.9	7379.6	7374.6	7177.6	6988.0	6896.9	6803.4	6862.5	6667.9	6682.7	6635.9
35°	7916.3	7936.0	7822.8	7682.4	7588.9	7428.8	7172.7	7278.6	7241.7	7224.4	7022.5
37.5°	8204.4	8128.1	8184.7	8137.9	8049.3	7849.9	7583.9	7684.9	7702.1	7785.8	7551.9
40°	8440.8	8408.8	8559.0	8583.6	8522.1	8091.2	7613.5	7913.9	8172.4	8354.6	8076.4
42.5°	8554.1	8623.0	8780.6	8970.2	8832.3	8371.9	7766.1	8088.7	8664.9	8953.0	8573.8
45°	8706.7	8618.1	8852.0	9199.2	9201.7	8608.2	7913.9	8325.1	9049.0	9467.6	8913.6
47.5°	8551.6	8595.9	8837.2	9278.0	9391.3	8856.9	8312.8	8660.0	9472.5	9844.3	9228.8
50°	8204.4	8293.1	8733.8	9191.8	9534.1	9120.4	8770.8	9021.9	9864.0	10147.2	9280.5
52.5°	7842.5	7891.7	8581.2	9258.3	9598.1	9460.2	9383.9	9521.8	10341.7	10489.5	9344.5
55°	6857.5	7091.5	8076.4	9228.8	9910.8	10073.3	10014.2	10216.1	10883.4	11031.2	9694.1
56°	6402.0	6525.1	7773.5	9090.9	9972.4	10297.4	10267.8	10359.0	11171.5	11326.6	9748.3
57.5°	5559.9	5569.8	6628.5	8480.2	9740.9	10363.9	10334.3	10405.7	11114.9	11009.0	9273.1
60°	3479.2	3631.9	4511.0	6522.7	8283.2	9615.3	9782.8	9209.1	9371.6	9147.5	7214.6
62.5°	1802.4	1780.3	2363.8	3814.1	5498.3	6884.6	7039.8	7012.7	6761.5	6434.0	4712.9
65°	898.7	903.7	1236.1	1888.6	2816.9	3604.8	4038.2	4085.0	3417.7	3144.4	2235.8
67.5°	652.5	677.1	888.9	1154.8	1327.2	1484.8	1819.6	1785.2	1351.8	1285.3	1191.8
70°	507.2	529.4	721.5	881.5	800.3	800.3	871.7	901.2	962.8	989.9	1021.9
72.5°	369.3	386.6	551.6	608.2	524.5	563.9	652.5	721.5	785.5	795.3	832.3
75°	253.6	268.4	362.0	334.9	315.2	389.0	477.7	541.7	588.5	613.1	635.3
77.5°	165.0	169.9	206.8	174.8	201.9	251.2	310.3	364.4	411.2	430.9	435.8
80°	73.9	81.3	88.6	110.8	140.4	179.7	221.6	265.9	295.5	302.9	317.6
82.5°	41.9	41.9	54.2	78.8	103.4	130.5	160.1	192.1	226.5	233.9	231.5
85°	22.2	22.2	32.0	46.8	64.0	76.3	73.9	76.3	81.3	93.6	91.1
87.5°	7.4	7.4	9.8	9.8	12.3	14.8	12.3	17.2	22.2	22.2	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°	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6	5057.6
2.5°	5050.2	5072.4	5042.8	5106.8	5106.8	5094.5	5033.0	5052.7	5067.4	5067.4	5079.8
5°	5146.2	5138.8	5158.5	5082.2	5035.4	5018.2	4917.2	4868.0	4826.1	4823.7	4786.7
7.5°	5200.4	5180.7	5173.3	5116.7	4909.9	4784.3	4567.6	4442.0	4414.9	4318.9	4355.8
10°	5286.6	5323.5	5286.6	4978.8	4690.7	4402.6	4190.9	3996.3	3920.0	3858.4	3821.5
12.5°	5463.9	5446.6	5232.4	4816.3	4412.5	4070.2	3755.0	3550.7	3474.3	3420.2	3415.2
15°	5614.1	5527.9	5200.4	4560.2	3979.1	3614.7	3356.1	3210.9	3176.4	3181.3	3203.5
17.5°	5665.8	5606.7	5033.0	4294.3	3656.5	3228.1	3107.4	3085.3	3117.3	3154.2	3164.1
20°	5747.0	5653.5	4964.0	3932.3	3257.6	2986.8	2979.4	3058.2	3117.3	3171.5	3178.8
22.5°	5916.9	5680.6	4740.0	3590.1	2984.3	2915.4	2986.8	3053.3	3144.4	3188.7	3149.3
25°	5966.2	5621.5	4424.8	3178.8	2812.0	2871.1	2947.4	3038.5	3102.5	3127.1	3144.4
27.5°	6008.0	5530.4	3998.8	2905.5	2757.8	2868.6	2947.4	3023.7	3058.2	3080.4	3100.1
30°	6126.2	5503.3	3629.5	2723.3	2723.3	2819.3	2920.3	2940.0	2986.8	3013.9	3048.3
32.5°	6185.3	5316.1	3250.3	2607.6	2688.8	2844.0	2851.4	2888.3	2890.8	2912.9	2876.0
35°	6340.5	5183.2	2898.1	2523.9	2703.6	2819.3	2856.3	2834.1	2713.5	2654.4	2666.7
37.5°	6453.7	5116.7	2644.5	2514.0	2706.1	2846.4	2866.1	2698.7	2573.1	2474.6	2499.2
40°	6759.1	4951.7	2452.5	2496.8	2728.2	2876.0	2821.8	2639.6	2413.1	2312.1	2294.9
42.5°	6993.0	4833.5	2331.8	2477.1	2745.5	2917.8	2799.7	2521.4	2290.0	2196.4	2221.0
45°	7263.8	4806.4	2267.8	2482.0	2775.0	2940.0	2772.6	2430.3	2184.1	2147.1	2139.8
47.5°	7359.9	4611.9	2198.8	2440.2	2767.6	2932.6	2681.5	2361.4	2144.7	2149.6	2169.3
50°	7199.8	4412.5	2147.1	2354.0	2718.4	2866.1	2538.6	2270.3	2122.5	2184.1	2218.5
52.5°	6995.4	4208.1	2041.3	2238.2	2617.4	2762.7	2472.2	2265.3	2100.4	2080.7	2088.0
55°	7057.0	4040.7	1893.5	2080.7	2454.9	2570.7	2398.3	2218.5	2046.2	1972.3	1996.9
56°	6857.5	3868.3	1797.5	1982.2	2344.1	2447.5	2361.4	2176.7	2001.9	1952.6	1952.6
57.5°	6293.7	3289.7	1671.9	1824.6	2110.2	2233.3	2290.0	2152.1	1952.6	1866.4	1868.9
60°	4641.5	2339.2	1499.5	1607.9	1748.2	1846.7	2110.2	2083.1	1829.5	1770.4	1748.2
62.5°	2861.2	1708.8	1376.4	1418.3	1489.7	1571.0	1841.8	1886.1	1699.0	1635.0	1620.2
65°	1603.0	1307.5	1282.9	1300.1	1334.6	1376.4	1529.1	1627.6	1499.5	1401.1	1396.1
67.5°	1172.1	1169.6	1189.3	1204.1	1218.8	1218.8	1255.8	1295.2	1277.9	1199.1	1191.8
70°	1041.6	1048.9	1063.7	1066.2	1071.1	1053.9	1024.3	1012.0	1031.7	982.5	972.6
72.5°	859.3	884.0	901.2	903.7	876.6	854.4	815.0	773.2	758.4	748.5	746.1
75°	659.9	677.1	684.5	682.1	672.2	640.2	593.4	551.6	524.5	494.9	509.7
77.5°	445.7	470.3	482.6	482.6	467.8	418.6	396.4	364.4	337.3	305.3	310.3
80°	312.7	330.0	349.6	347.2	322.6	297.9	265.9	236.4	214.2	189.6	187.1
82.5°	233.9	243.8	253.6	248.7	231.5	206.8	184.7	157.6	133.0	115.7	115.7
85°	83.7	91.1	110.8	115.7	125.6	125.6	105.9	88.6	71.4	59.1	59.1
87.5°	24.6	24.6	27.1	27.1	24.6	27.1	22.2	24.6	27.1	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)