

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: P531443

Luminaire Tested: **GALN-SA6D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23332 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

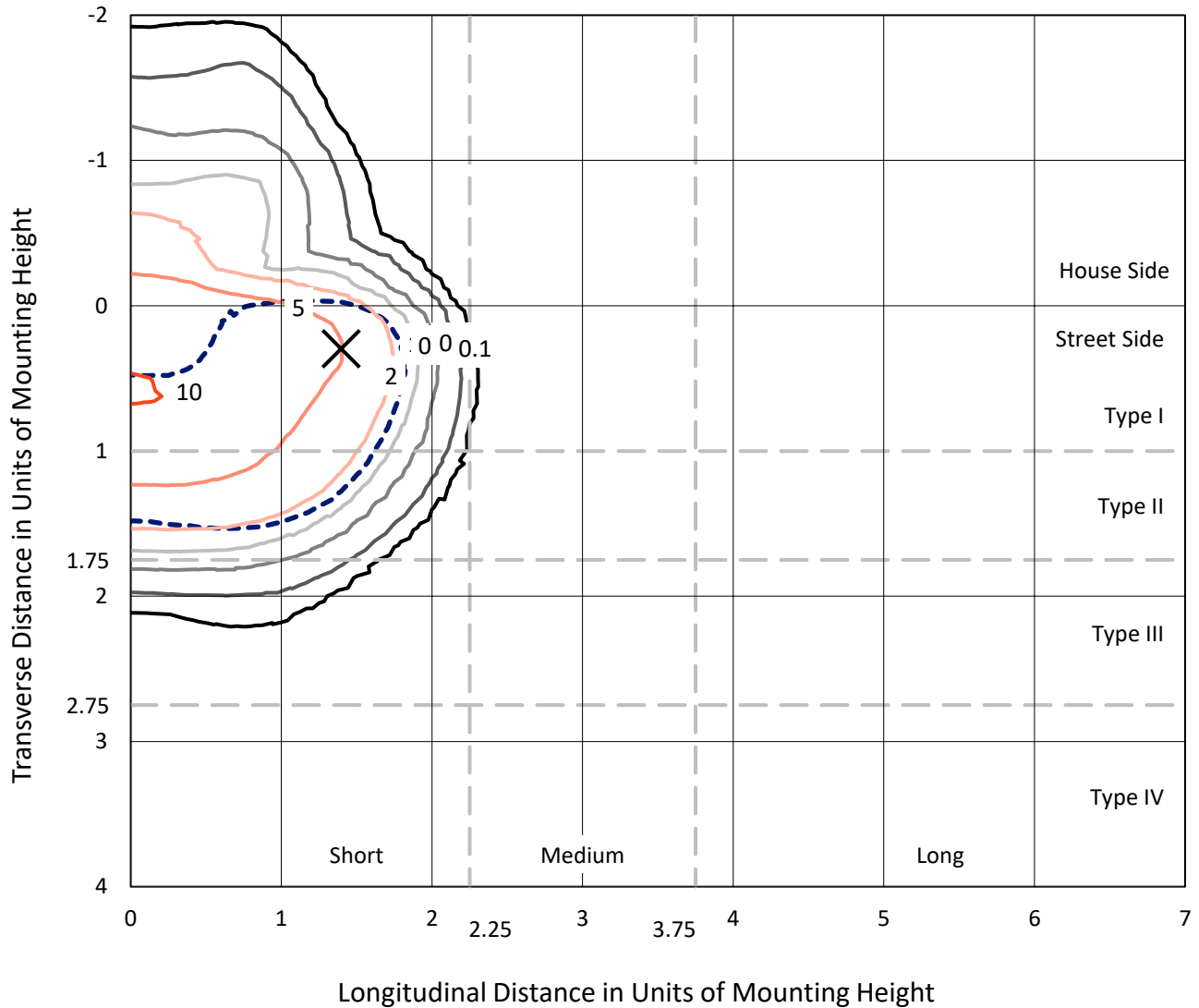
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

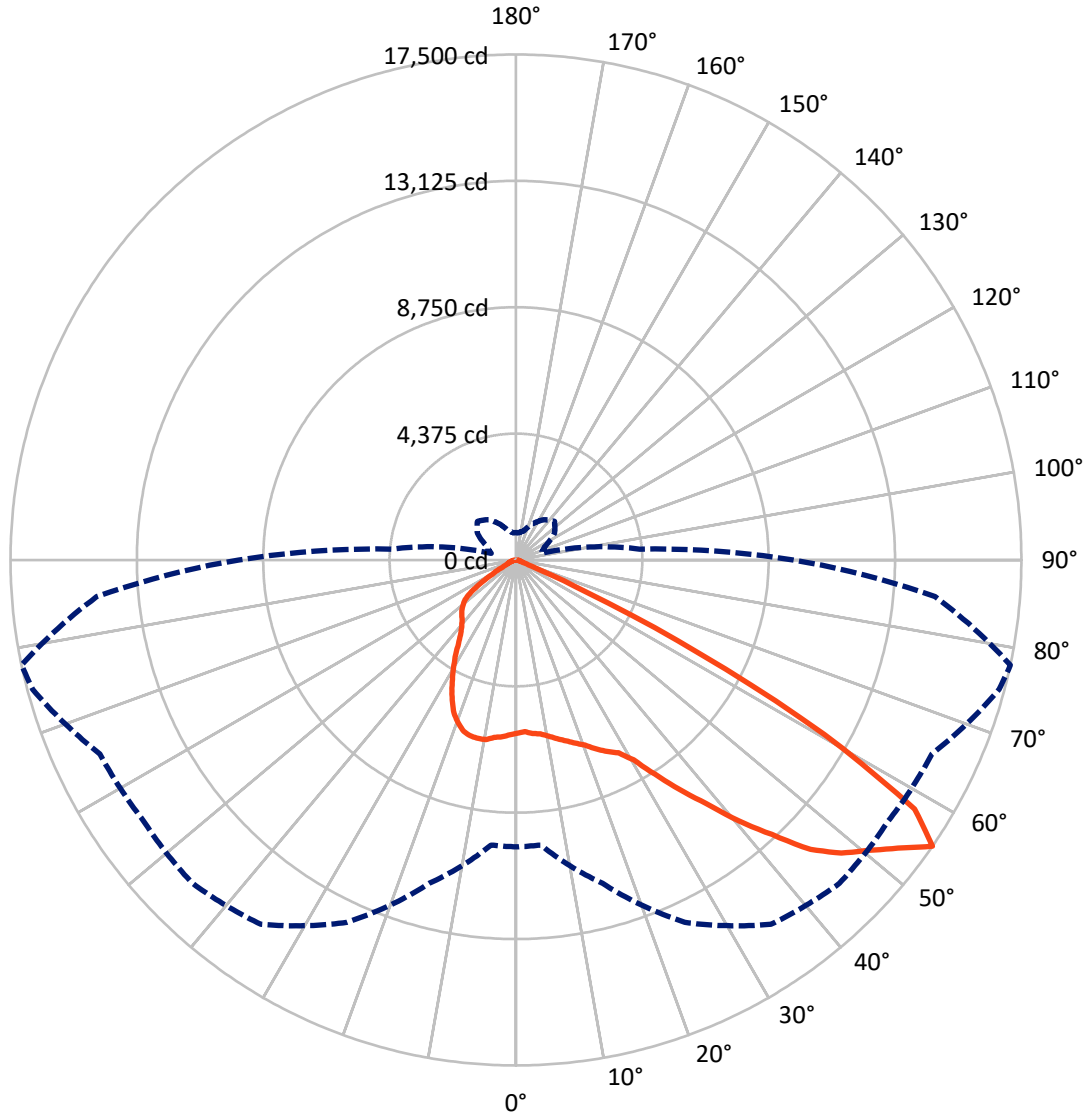
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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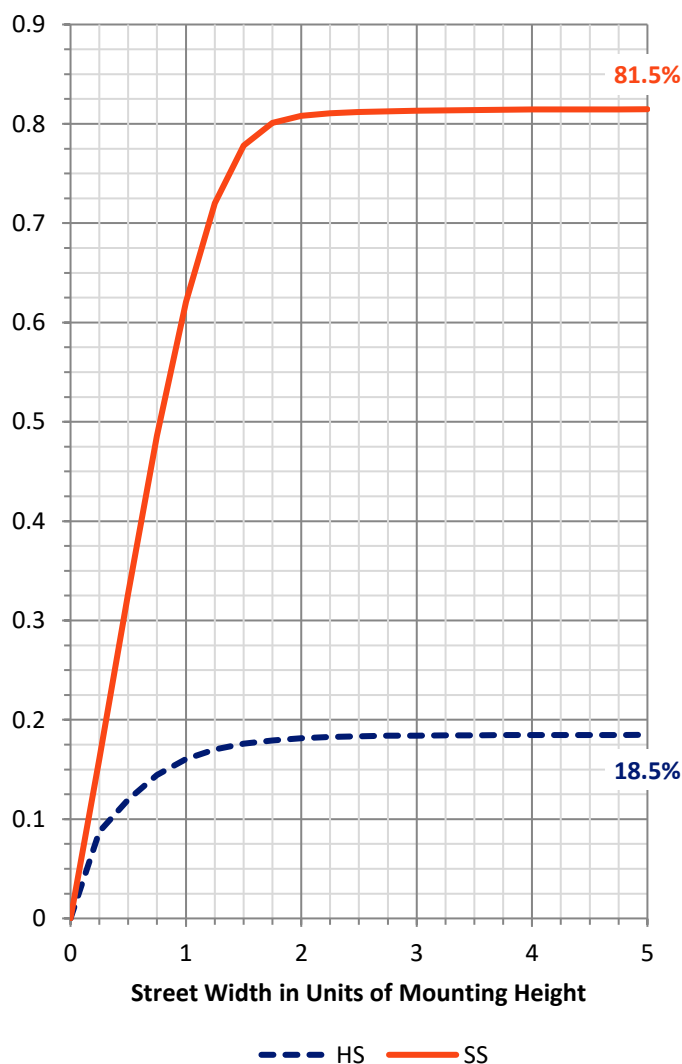
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4333.7	0.0	4333.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18998.3	0.0	18998.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	23332.0	0.0	23332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.9	2.3
10°-20°	1415.6	6.1
20°-30°	2481.3	10.6
30°-40°	4091.3	17.5
40°-50°	5953.4	25.5
50°-60°	6745.8	28.9
60°-70°	1928.8	8.3
70°-80°	149.8	0.6
80°-90°	31.2	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°	23332.0	100.0
0°-180°	23332.0	100.0

Coefficient of Utilization



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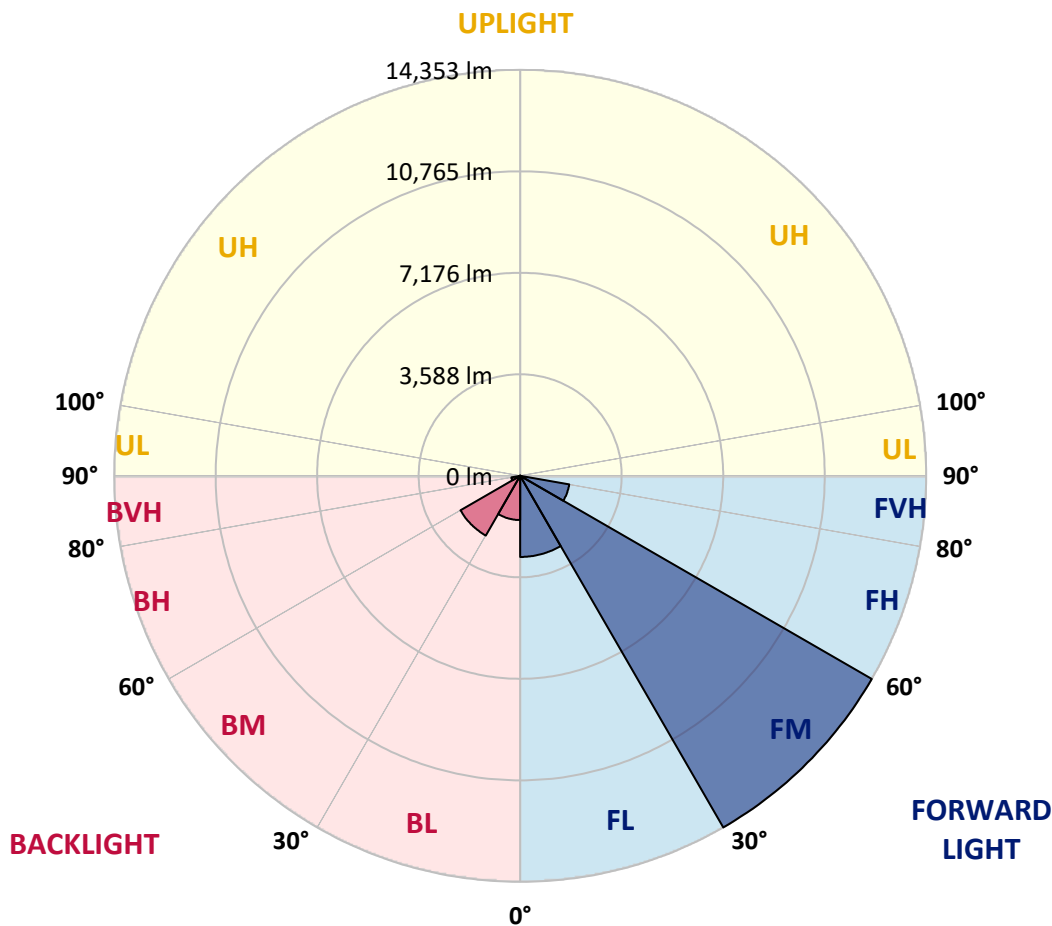
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2868.2	12.3			
FM (30°-60°)	14352.8	61.5			
FH (60°-80°)	1762.2	7.6			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1563.6	6.7	B3/2500		
BM (30°-60°)	2437.8	10.4	B2/2500		
BH (60°-80°)	316.3	1.4	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7
2.5°	5639.9	5694.1	5702.5	5769.2	5765.1	5877.7	5911.1	5915.2	5990.3	5952.8	6048.7
5°	5481.4	5452.2	5439.7	5556.5	5589.9	5690.0	5773.4	5823.5	5977.8	6032.0	6132.2
7.5°	5339.6	5339.6	5347.9	5452.2	5439.7	5569.0	5656.6	5811.0	6036.2	6082.1	6203.1
10°	5201.9	5151.8	5214.4	5322.9	5414.7	5473.1	5656.6	5802.6	6065.4	6198.9	6365.8
12.5°	5131.0	5156.0	5164.4	5243.6	5343.7	5518.9	5619.1	5861.0	6274.0	6353.3	6532.6
15°	5577.3	5527.3	5406.3	5335.4	5418.8	5502.3	5752.6	5998.7	6382.5	6495.1	6695.3
17.5°	6094.6	6052.9	5952.8	5760.9	5573.2	5727.5	5923.6	6148.8	6499.3	6666.1	6962.3
20°	6770.4	6703.7	6603.5	6228.1	6065.4	5898.6	6107.1	6374.1	6691.1	6841.3	7145.8
22.5°	7575.5	7575.5	7350.2	6895.6	6557.7	6399.1	6486.7	6641.1	6903.9	7108.3	7408.7
25°	8414.0	8389.0	8184.6	7713.2	7141.7	6954.0	7054.1	7162.5	7233.4	7346.1	7546.3
27.5°	9373.4	9227.4	8968.8	8447.4	7942.6	7579.7	7688.1	7592.2	7504.6	7563.0	7850.8
30°	10024.2	10116.0	9786.4	9285.8	8810.3	8405.6	8426.5	8343.1	7942.6	8026.0	8197.1
32.5°	10700.0	10758.4	10574.8	10299.5	9824.0	9352.6	9181.6	9110.6	8810.3	8847.8	8681.0
35°	11263.2	11375.8	11213.1	11092.1	10954.5	10574.8	10103.5	10332.9	9849.0	9757.2	9323.4
37.5°	11780.4	11747.0	11938.9	11813.8	11784.6	11517.6	11000.3	11046.2	10720.9	10700.0	10199.4
40°	12243.5	12251.8	12514.6	12573.0	12456.2	11980.7	11229.8	11592.7	11855.5	11880.5	11238.1
42.5°	12627.2	12739.9	12965.1	13436.5	13261.3	12468.7	11467.6	11863.9	12840.0	12994.3	12222.6
45°	12961.0	13190.4	13469.9	13891.2	13791.1	13161.2	12059.9	12422.8	13891.2	14295.9	13148.7
47.5°	12981.8	13282.2	13586.7	14212.4	14337.6	13532.5	12673.1	13307.2	14725.5	15163.5	13824.5
50°	12898.4	13056.9	13666.0	14345.9	14629.6	14137.3	13532.5	14049.7	15534.8	15810.1	14166.5
52.5°	11909.7	12030.7	13253.0	14471.1	15155.2	14821.5	14671.3	15084.3	16360.8	16565.2	14487.7
55°	9928.3	9907.4	11588.5	13841.2	15397.1	15835.2	15743.4	15889.4	17316.1	17499.6	14567.0
57.5°	6791.3	7170.9	8622.6	11526.0	13916.2	15597.4	15693.3	15451.4	16202.3	16273.2	12698.2
60°	3662.6	3821.1	4989.2	7692.3	10595.7	12710.7	12961.0	12523.0	12464.6	12264.3	9064.8
62.5°	1455.9	1535.1	2198.4	3808.6	5773.4	7725.7	8263.8	8084.4	7700.7	7175.0	4693.0
65°	692.5	742.5	1092.9	1781.2	2561.3	3220.4	3758.6	3925.4	2895.0	2607.2	1547.6
67.5°	471.4	508.9	796.8	1017.9	913.6	955.3	1243.1	1155.5	680.0	579.8	429.7
70°	358.8	383.8	638.2	692.5	408.8	287.8	321.2	300.4	279.5	283.7	279.5
72.5°	254.5	275.3	467.2	408.8	179.4	133.5	171.0	204.4	204.4	204.4	200.2
75°	154.3	175.2	271.1	158.5	70.9	70.9	108.5	137.7	146.0	150.2	141.8
77.5°	79.3	100.1	91.8	45.9	45.9	54.2	79.3	95.9	104.3	104.3	100.1
80°	16.7	16.7	16.7	25.0	45.9	58.4	79.3	87.6	100.1	100.1	91.8
82.5°	0.0	4.2	12.5	25.0	41.7	54.2	75.1	87.6	100.1	104.3	95.9
85°	0.0	4.2	8.3	16.7	29.2	33.4	29.2	25.0	25.0	25.0	25.0
87.5°	0.0	0.0	4.2	4.2	4.2	8.3	8.3	8.3	8.3	8.3	8.3
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°	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7	5998.7
2.5°	6057.1	6069.6	6048.7	6044.6	6027.9	6077.9	5957.0	5927.8	6002.8	5931.9	5948.6
5°	6136.3	6165.5	6128.0	6065.4	5973.6	5831.8	5710.8	5552.3	5477.2	5423.0	5414.7
7.5°	6194.7	6215.6	6178.0	5977.8	5702.5	5343.7	5076.8	4880.7	4726.4	4680.5	4605.4
10°	6432.5	6436.7	6249.0	5806.8	5268.7	4797.3	4388.5	4088.1	3933.8	3837.8	3796.1
12.5°	6591.0	6582.7	6203.1	5468.9	4751.4	4125.7	3658.4	3295.5	3153.7	3107.8	3078.6
15°	6791.3	6745.4	6094.6	5122.6	4083.9	3408.1	2986.8	2736.5	2724.0	2694.8	2724.0
17.5°	6949.8	6820.5	5936.1	4492.7	3445.7	2807.4	2532.1	2548.8	2582.2	2611.4	2615.6
20°	7208.4	6941.4	5573.2	3942.1	2853.3	2407.0	2402.8	2477.9	2561.3	2594.7	2628.1
22.5°	7404.5	6991.5	5185.2	3353.9	2369.4	2244.3	2315.2	2427.8	2490.4	2523.8	2573.8
25°	7475.4	6853.8	4668.0	2765.7	2135.8	2169.2	2277.7	2352.7	2432.0	2469.6	2448.7
27.5°	7546.3	6782.9	4050.6	2277.7	2010.7	2119.1	2210.9	2286.0	2311.0	2361.1	2394.5
30°	7717.3	6536.8	3495.7	1969.0	1948.1	2085.8	2152.5	2177.5	2244.3	2273.5	2273.5
32.5°	7855.0	6440.9	2907.6	1823.0	1939.8	2102.5	2110.8	2110.8	2119.1	2098.3	2089.9
35°	8138.7	6111.3	2381.9	1735.4	1935.6	2106.6	2127.5	2056.6	1864.7	1789.6	1768.7
37.5°	8489.1	5898.6	1994.0	1714.5	1964.8	2156.7	2190.1	1923.1	1672.8	1551.8	1531.0
40°	8914.6	5748.4	1739.5	1706.2	2031.5	2273.5	2173.4	1818.8	1493.4	1318.2	1309.9
42.5°	9411.0	5610.7	1568.5	1702.0	2115.0	2394.5	2156.7	1731.2	1309.9	1193.1	1209.7
45°	9807.3	5535.6	1451.7	1672.8	2144.2	2465.4	2169.2	1576.8	1234.8	1159.7	1168.0
47.5°	10116.0	5377.1	1355.7	1622.7	2140.0	2490.4	2056.6	1514.3	1197.2	1218.1	1238.9
50°	10124.3	5164.4	1234.8	1514.3	2077.4	2444.5	1927.3	1455.9	1188.9	1276.5	1318.2
52.5°	10011.7	4864.0	1105.5	1359.9	1931.4	2286.0	1810.4	1430.8	1151.3	1143.0	1193.1
55°	9611.2	4300.9	888.5	1101.3	1631.1	1885.5	1706.2	1385.0	1038.7	942.8	951.1
57.5°	7767.4	3082.8	654.9	788.4	1155.5	1380.8	1539.3	1364.1	934.4	800.9	805.1
60°	4809.8	1747.9	479.7	538.1	713.3	838.5	1247.3	1268.1	834.3	675.8	667.4
62.5°	2469.6	863.5	371.3	379.6	438.0	492.2	855.2	1063.7	755.0	642.4	642.4
65°	826.0	425.5	325.4	292.0	292.0	304.5	517.3	738.4	638.2	538.1	538.1
67.5°	354.6	317.0	283.7	254.5	233.6	221.1	292.0	429.7	475.6	408.8	392.1
70°	275.3	267.0	246.1	212.7	183.5	166.9	171.0	221.1	271.1	262.8	254.5
72.5°	204.4	204.4	196.1	166.9	141.8	121.0	112.6	116.8	129.3	133.5	137.7
75°	141.8	146.0	146.0	129.3	104.3	87.6	75.1	62.6	50.1	41.7	37.5
77.5°	95.9	100.1	108.5	95.9	79.3	58.4	45.9	33.4	20.9	8.3	8.3
80°	83.4	95.9	104.3	95.9	83.4	62.6	45.9	25.0	12.5	0.0	0.0
82.5°	87.6	95.9	108.5	91.8	79.3	58.4	45.9	29.2	12.5	4.2	0.0
85°	20.9	20.9	25.0	29.2	37.5	41.7	33.4	20.9	12.5	4.2	0.0
87.5°	8.3	8.3	8.3	8.3	8.3	4.2	4.2	4.2	4.2	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)