

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: P530493

Luminaire Tested: **GALN-SA5D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18911 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

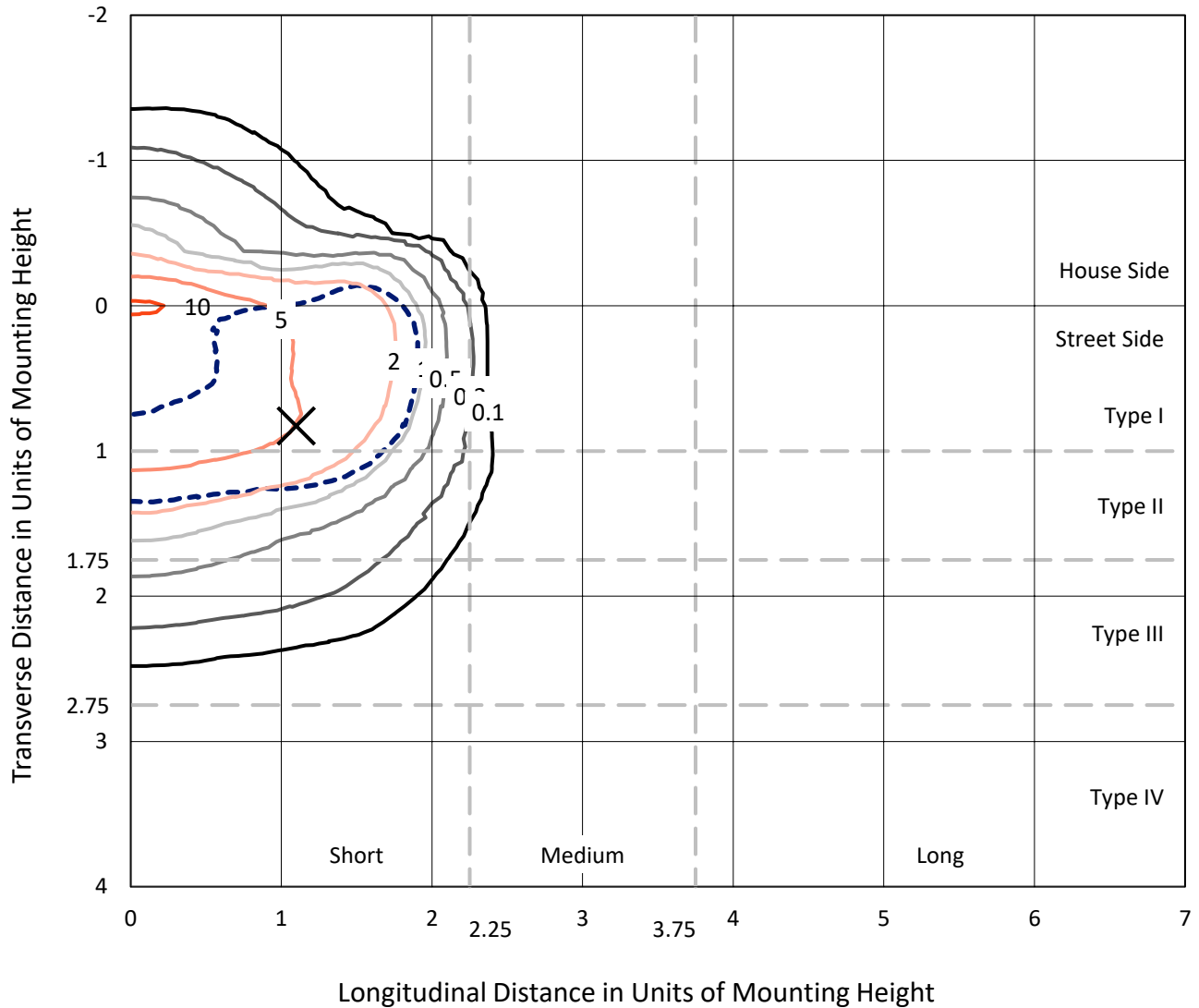
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

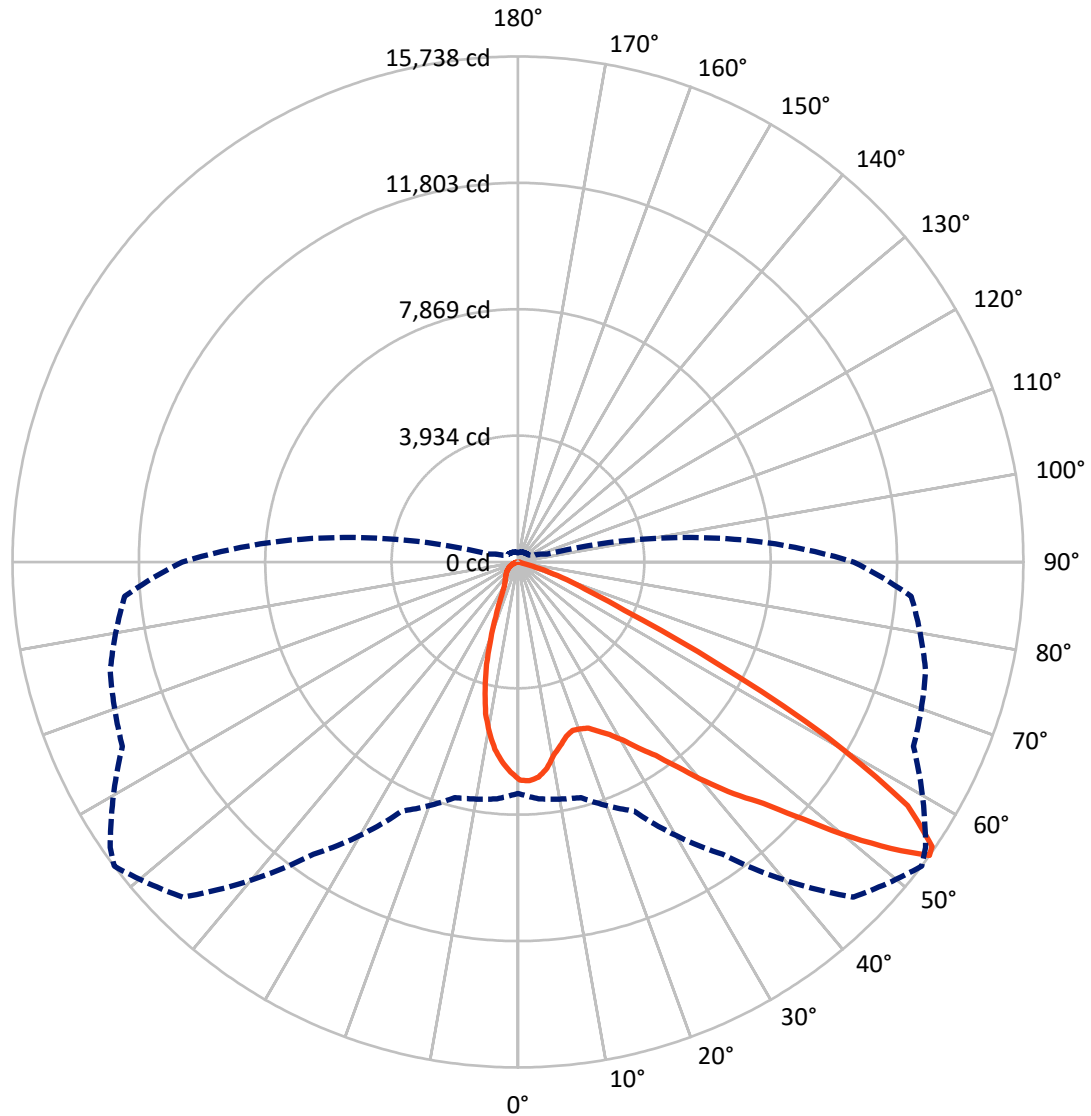
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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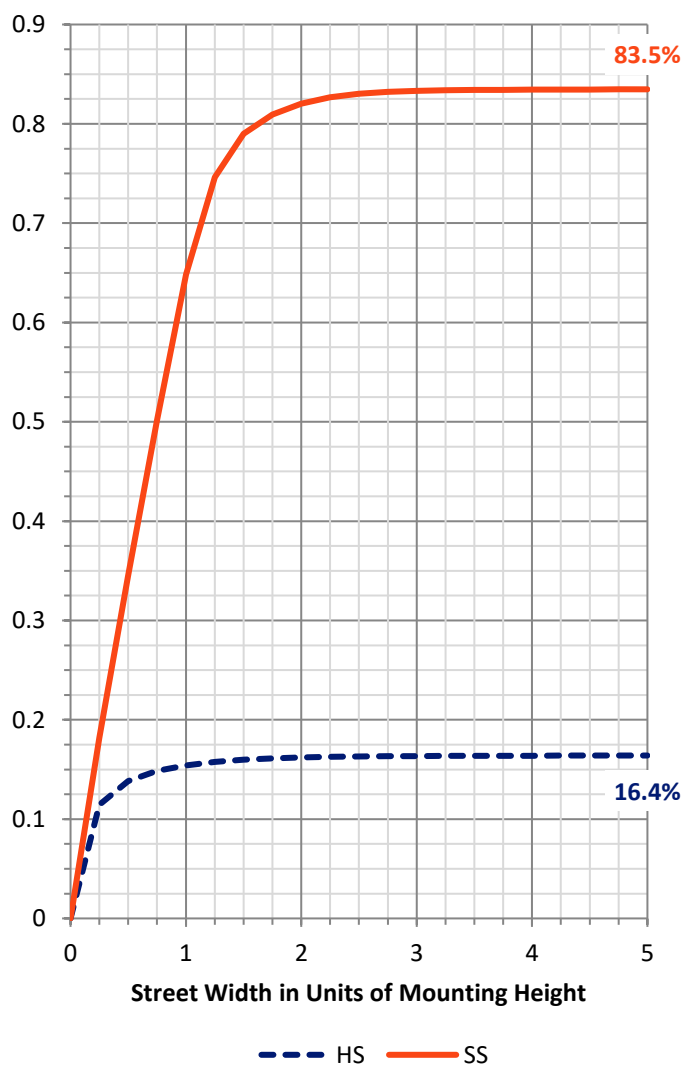
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3128.9	0.0	3128.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15782.1	0.0	15782.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	18911.0	0.0	18911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.8	3.1
10°-20°	1336.1	7.1
20°-30°	1898.9	10.0
30°-40°	2930.6	15.5
40°-50°	4594.8	24.3
50°-60°	5337.5	28.2
60°-70°	2016.8	10.7
70°-80°	191.8	1.0
80°-90°	21.6	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°	18911.0	100.0
0°-180°	18911.0	100.0

Coefficient of Utilization

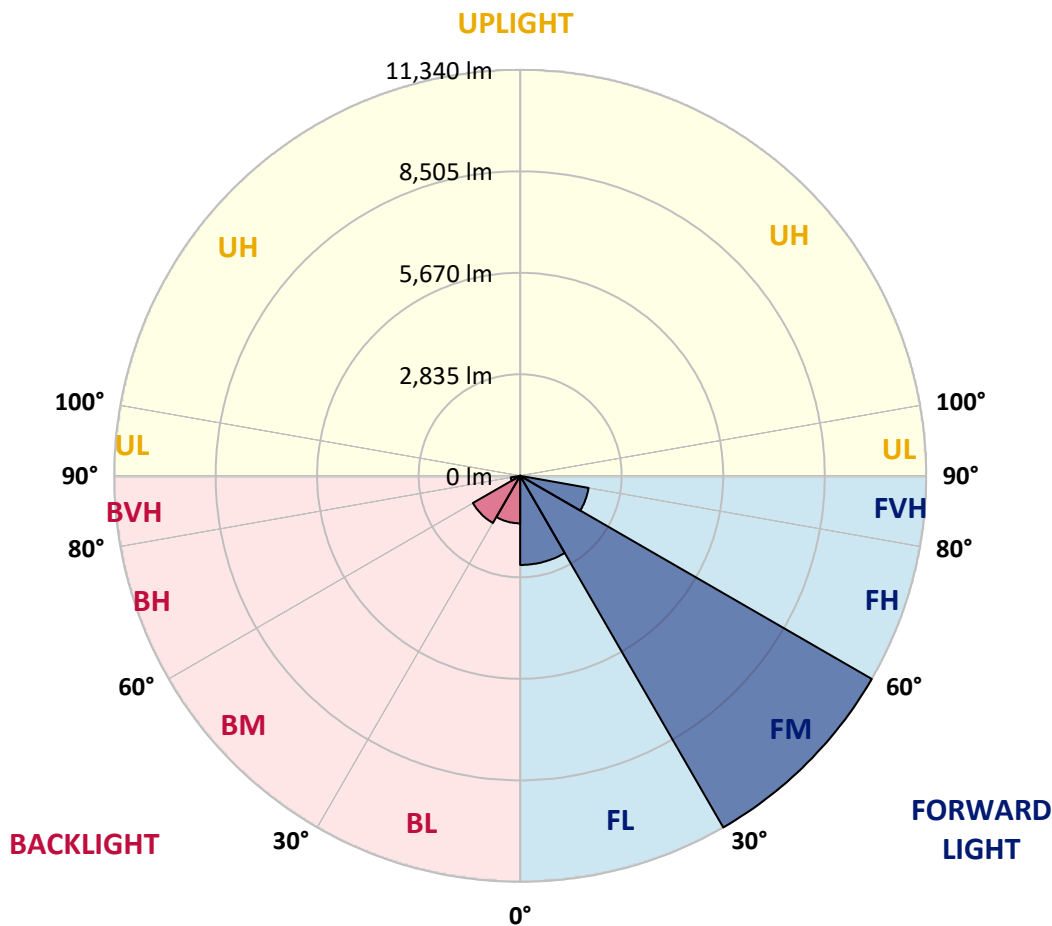


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.1	13.2			
FM (30°-60°)	11340.3	60.0			
FH (60°-80°)	1940.6	10.3			G2/5000
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	1327.8	7.0	B3/2500		
BM (30°-60°)	1522.6	8.1	B2/2500		
BH (60°-80°)	268.1	1.4	B1/500		G1/500
BVH (80°-90°)	10.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5
2.5°	6757.3	6697.4	6757.3	6764.3	6806.6	6845.4	6820.7	6877.1	6845.4	6810.1	6799.6
5°	6211.2	6292.2	6295.8	6422.6	6394.4	6626.9	6729.1	6700.9	6873.5	6863.0	6838.3
7.5°	5721.5	5689.8	5732.1	5880.0	6066.8	6334.5	6482.5	6479.0	6725.6	6901.7	6884.1
10°	5267.0	5263.5	5351.6	5467.8	5626.4	5908.2	6112.6	6214.7	6598.7	6866.5	6905.3
12.5°	4960.5	4946.4	5041.5	5136.7	5386.8	5605.2	5865.9	5915.3	6355.6	6743.2	6806.6
15°	4759.7	4791.4	4798.4	4981.6	5140.2	5429.1	5633.4	5735.6	6242.9	6644.5	6887.6
17.5°	4724.5	4766.7	4770.3	4921.8	5090.9	5334.0	5513.6	5651.0	6147.8	6693.9	6891.2
20°	4794.9	4770.3	4791.4	4886.5	5052.1	5284.6	5545.3	5591.1	6116.1	6718.5	6929.9
22.5°	4995.7	4988.7	4935.8	5013.4	5129.6	5372.7	5619.3	5689.8	6207.7	6845.4	6961.6
25°	5217.7	5256.4	5207.1	5196.6	5277.6	5517.2	5844.8	5936.4	6514.2	7074.4	7060.3
27.5°	5633.4	5594.7	5594.7	5545.3	5524.2	5640.5	6087.9	6239.4	6855.9	7370.3	7173.0
30°	6031.5	6073.8	6042.1	6059.7	5918.8	5908.2	6433.2	6619.9	7461.9	7821.3	7412.6
32.5°	6662.2	6605.8	6658.6	6612.8	6426.1	6235.9	6901.7	7095.5	8194.7	8339.1	7771.9
35°	7187.1	7162.4	7387.9	7380.9	7077.9	6891.2	7398.5	7687.4	8705.5	8959.2	8194.7
37.5°	7934.0	7888.2	8145.4	8268.7	7997.4	7719.1	8110.1	8444.8	9181.2	9456.0	8628.0
40°	8702.0	8818.3	9163.6	9367.9	9079.0	8709.1	8980.3	9082.5	9498.2	9780.1	8924.0
42.5°	9674.4	9843.5	10195.8	10372.0	10347.3	9945.7	9864.6	9861.1	9727.2	9688.5	9142.4
45°	10608.0	10544.6	11087.2	11471.2	11781.2	11664.9	10717.2	10611.5	10090.1	9825.9	9198.8
47.5°	11016.7	10995.6	11365.5	12049.0	13105.9	13250.3	11957.4	11548.7	10703.1	10403.7	9505.3
50°	10488.2	10597.4	10963.8	11721.3	13341.9	14444.7	13479.3	12929.7	11418.3	11108.3	10231.0
52.5°	8761.9	8835.9	9184.7	10146.5	12538.7	15149.3	14937.9	14620.8	12732.4	12218.1	11495.8
54°	7204.7	7402.0	7592.3	8557.6	11108.3	14758.2	15737.6	15494.5	13588.5	13141.1	12292.1
55°	6274.6	6390.9	6528.3	7490.1	10118.3	14095.9	15646.0	15667.2	14162.8	13430.0	12827.6
57.5°	4583.5	4664.6	4523.6	4949.9	6947.5	11446.5	14310.8	14881.5	14937.9	13863.3	13155.2
60°	3501.9	3537.2	3378.6	3445.6	4319.3	7856.5	11069.5	11756.5	13475.8	12115.9	11143.5
62.5°	2716.3	2723.3	2719.8	2836.1	2977.0	4622.3	6922.9	7532.4	9290.4	8603.4	7567.6
65°	2001.1	1969.4	2025.8	2378.1	2540.1	2906.5	3646.4	4090.3	5048.6	4262.9	3047.5
67.5°	1296.5	1307.1	1363.4	1768.6	2177.3	2230.1	2244.2	2209.0	2212.5	1219.0	764.5
70°	778.6	796.2	778.6	1000.6	1557.2	1599.5	1462.1	1426.9	1113.3	288.9	285.4
72.5°	461.5	436.9	391.1	429.8	648.2	775.1	697.6	694.0	436.9	169.1	169.1
75°	193.8	176.2	144.4	130.4	172.6	165.6	165.6	148.0	116.3	112.7	105.7
77.5°	38.8	38.8	28.2	31.7	42.3	49.3	59.9	59.9	70.5	70.5	66.9
80°	0.0	3.5	10.6	21.1	31.7	45.8	52.8	52.8	59.9	59.9	49.3
82.5°	0.0	3.5	10.6	21.1	28.2	42.3	52.8	52.8	59.9	63.4	52.8
85°	0.0	3.5	10.6	17.6	28.2	35.2	35.2	31.7	24.7	21.1	14.1
87.5°	0.0	0.0	3.5	7.0	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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°	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5	6792.5
2.5°	6824.2	6820.7	6736.1	6598.7	6567.0	6450.8	6436.7	6366.2	6405.0	6274.6	6260.5
5°	6767.9	6725.6	6623.4	6535.3	6278.1	6094.9	5950.5	5774.3	5672.2	5689.8	5622.8
7.5°	6848.9	6739.7	6560.0	6253.5	5939.9	5619.3	5446.7	5087.3	4957.0	4763.2	4735.0
10°	6764.3	6683.3	6405.0	5897.6	5464.3	5002.8	4597.6	4199.5	3896.5	3766.2	3738.0
12.5°	6757.3	6616.4	6151.3	5587.6	4960.5	4298.2	3709.8	3213.1	2913.6	2744.5	2705.7
15°	6648.1	6479.0	5865.9	5108.5	4241.8	3417.4	2776.2	2297.1	2068.1	1969.4	1997.6
17.5°	6658.6	6405.0	5580.6	4601.2	3533.7	2508.4	1895.4	1648.8	1588.9	1613.6	1613.6
20°	6648.1	6239.4	5235.3	4016.3	2705.7	1740.4	1391.6	1303.5	1342.3	1419.8	1402.2
22.5°	6591.7	6161.9	4918.2	3399.8	1990.5	1289.4	1116.8	1120.3	1180.2	1275.4	1296.5
25°	6634.0	5989.2	4516.6	2776.2	1451.5	1028.7	968.8	993.5	1056.9	1127.4	1141.5
27.5°	6602.3	5865.9	4097.4	2156.1	1060.4	884.3	880.8	909.0	937.1	990.0	990.0
30°	6637.5	5753.2	3685.1	1603.0	873.7	810.3	796.2	817.4	845.5	856.1	852.6
32.5°	6767.9	5668.6	3209.5	1197.8	771.6	739.8	739.8	739.8	736.3	750.4	753.9
35°	7053.2	5682.7	2790.3	926.6	704.6	680.0	669.4	655.3	648.2	655.3	658.8
37.5°	7363.3	5675.7	2356.9	789.2	655.3	634.2	609.5	588.4	584.8	591.9	581.3
40°	7500.7	5742.6	1955.3	708.1	609.5	584.8	546.1	528.5	532.0	539.0	532.0
42.5°	7687.4	5763.8	1694.6	644.7	567.2	528.5	503.8	482.7	479.1	489.7	486.2
45°	7683.9	5644.0	1419.8	609.5	528.5	486.2	454.5	436.9	436.9	443.9	447.4
47.5°	7909.3	5626.4	1219.0	577.8	500.3	458.0	419.2	405.2	401.6	401.6	394.6
50°	8434.3	5873.0	1064.0	542.6	465.0	426.3	394.6	377.0	362.9	355.8	352.3
52.5°	9459.5	6641.0	944.2	500.3	426.3	394.6	366.4	352.3	334.7	317.1	313.6
54°	10453.0	7433.7	937.1	465.0	394.6	373.4	348.8	341.7	320.6	295.9	288.9
55°	10900.4	7895.2	961.8	436.9	373.4	359.4	338.2	331.2	310.0	281.8	278.3
57.5°	11270.4	8074.9	947.7	362.9	338.2	334.7	317.1	306.5	281.8	243.1	236.0
60°	9071.9	6105.5	680.0	320.6	310.0	303.0	288.9	281.8	250.1	207.9	204.3
62.5°	5732.1	3512.5	433.3	281.8	271.3	260.7	243.1	236.0	207.9	165.6	155.0
65°	2441.5	1455.0	292.4	250.1	232.5	214.9	200.8	190.2	165.6	123.3	119.8
67.5°	634.2	517.9	243.1	218.4	193.8	169.1	158.5	140.9	112.7	84.6	81.0
70°	285.4	260.7	204.3	183.2	155.0	130.4	116.3	98.6	74.0	56.4	52.8
72.5°	169.1	165.6	155.0	137.4	116.3	98.6	84.6	66.9	49.3	31.7	31.7
75°	105.7	102.2	105.7	95.1	81.0	74.0	63.4	45.8	28.2	14.1	14.1
77.5°	63.4	63.4	63.4	59.9	56.4	56.4	45.8	28.2	14.1	3.5	3.5
80°	49.3	49.3	52.8	49.3	49.3	49.3	38.8	21.1	7.0	0.0	0.0
82.5°	49.3	52.8	59.9	56.4	49.3	42.3	35.2	21.1	7.0	0.0	0.0
85°	14.1	10.6	17.6	24.7	35.2	31.7	24.7	17.6	7.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5	3.5	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)