

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: P533925

Luminaire Tested: **GALN-SA9B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533925
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-SA9B-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 22134 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

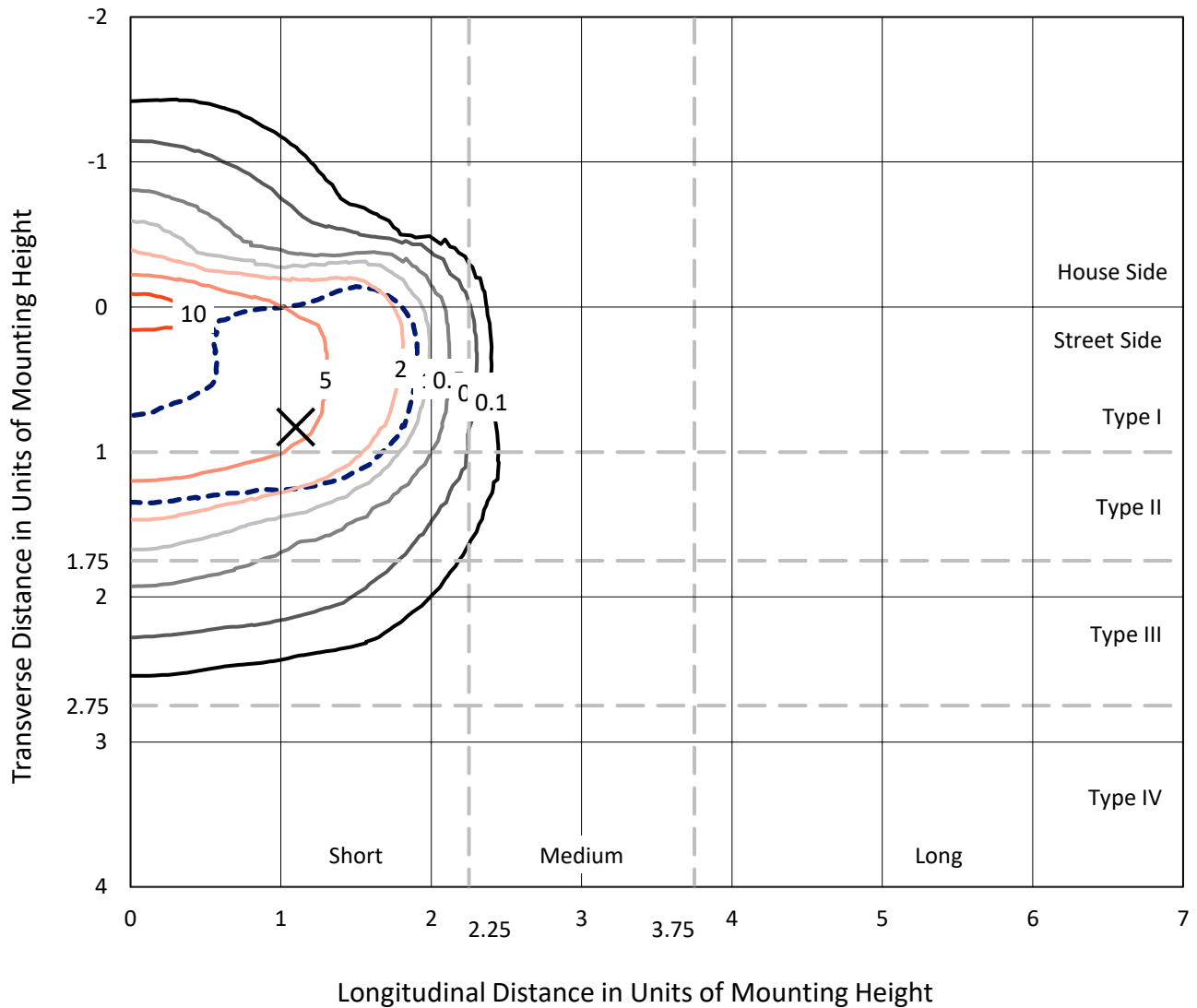
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

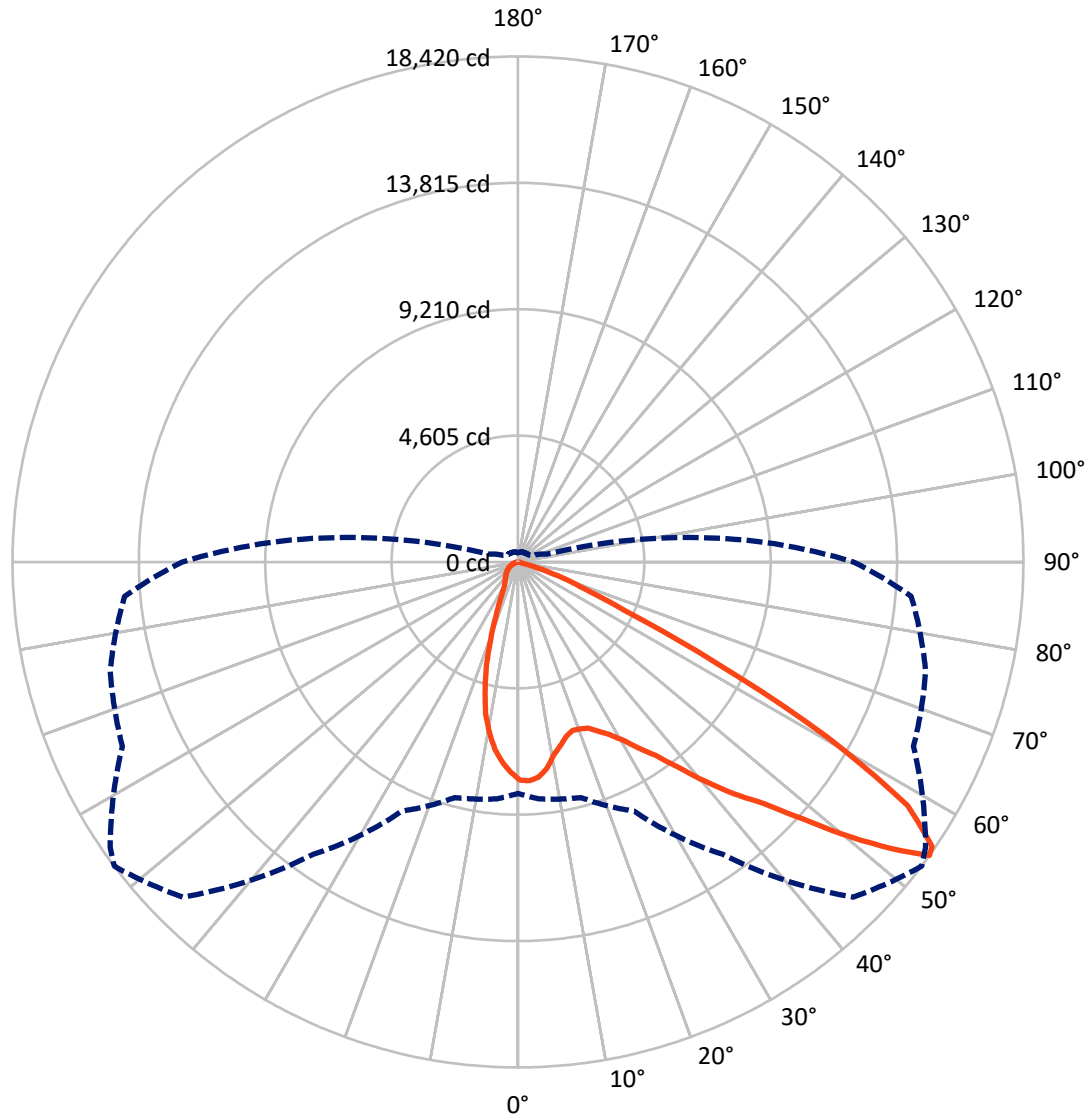
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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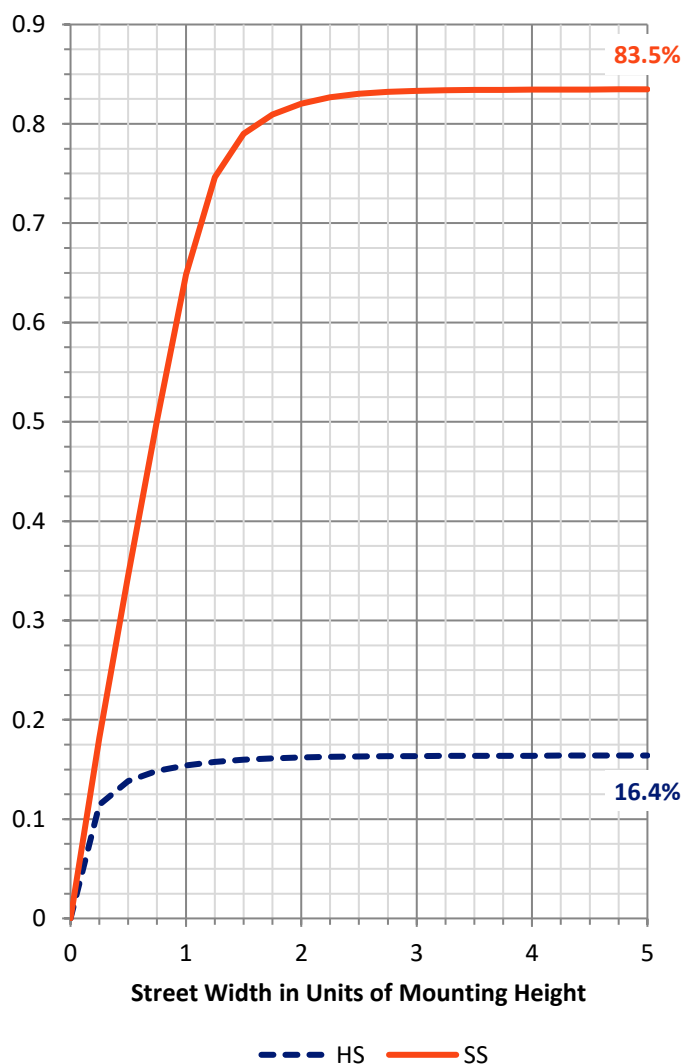
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3662.1	0.0	3662.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18471.9	0.0	18471.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	22134.0	0.0	22134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.1	3.1
10°-20°	1563.8	7.1
20°-30°	2222.6	10.0
30°-40°	3430.0	15.5
40°-50°	5377.9	24.3
50°-60°	6247.2	28.2
60°-70°	2360.6	10.7
70°-80°	224.5	1.0
80°-90°	25.3	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°	22134.0	100.0
0°-180°	22134.0	100.0

Coefficient of Utilization

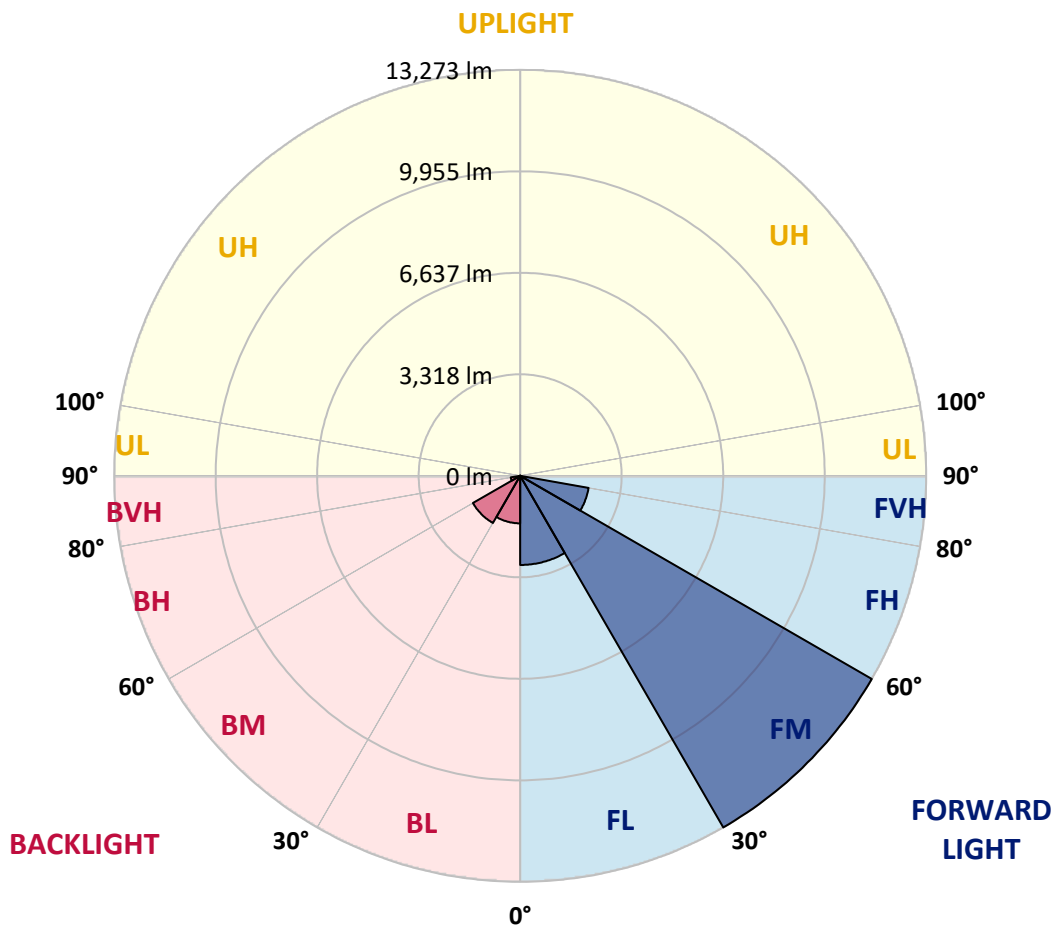


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2914.5	13.2			
FM (30°-60°)	13273.1	60.0			
FH (60°-80°)	2271.3	10.3			G2/5000
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	1554.1	7.0	B3/2500		
BM (30°-60°)	1782.1	8.1	B2/2500		
BH (60°-80°)	313.8	1.4	B1/500		G1/500
BVH (80°-90°)	12.2	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°	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2
2.5°	7908.9	7838.8	7908.9	7917.2	7966.7	8012.0	7983.1	8049.1	8012.0	7970.8	7958.4
5°	7269.8	7364.6	7368.7	7517.2	7484.2	7756.4	7875.9	7842.9	8045.0	8032.6	8003.8
7.5°	6696.6	6659.5	6709.0	6882.2	7100.7	7414.1	7587.3	7583.2	7871.8	8078.0	8057.4
10°	6164.7	6160.5	6263.6	6399.7	6585.3	6915.2	7154.3	7273.9	7723.4	8036.8	8082.1
12.5°	5805.9	5789.4	5900.8	6012.1	6304.9	6560.5	6865.7	6923.4	7438.8	7892.4	7966.7
15°	5570.9	5608.0	5616.2	5830.7	6016.2	6354.4	6593.5	6713.1	7306.9	7777.0	8061.5
17.5°	5529.6	5579.1	5583.3	5760.6	5958.5	6243.0	6453.3	6614.1	7195.6	7834.7	8065.6
20°	5612.1	5583.3	5608.0	5719.3	5913.1	6185.3	6490.4	6544.0	7158.4	7863.6	8111.0
22.5°	5847.2	5838.9	5777.1	5867.8	6003.9	6288.4	6577.0	6659.5	7265.7	8012.0	8148.1
25°	6106.9	6152.3	6094.6	6082.2	6177.0	6457.4	6840.9	6948.1	7624.4	8280.0	8263.5
27.5°	6593.5	6548.2	6548.2	6490.4	6465.7	6601.8	7125.5	7302.8	8024.4	8626.4	8395.5
30°	7059.5	7109.0	7071.8	7092.5	6927.5	6915.2	7529.6	7748.1	8733.6	9154.2	8675.9
32.5°	7797.6	7731.6	7793.5	7739.9	7521.3	7298.6	8078.0	8304.8	9591.3	9760.4	9096.5
35°	8412.0	8383.1	8647.0	8638.8	8284.2	8065.6	8659.4	8997.5	10189.2	10486.1	9591.3
37.5°	9286.2	9232.6	9533.6	9677.9	9360.4	9034.6	9492.4	9884.1	10745.9	11067.5	10098.5
40°	10185.1	10321.2	10725.3	10964.5	10626.3	10193.4	10510.9	10630.5	11117.0	11446.9	10444.9
42.5°	11323.2	11521.1	11933.5	12139.7	12110.8	11640.7	11545.9	11541.8	11385.1	11339.7	10700.6
45°	12415.9	12341.7	12976.7	13426.2	13789.1	13653.0	12543.8	12420.1	11809.8	11500.5	10766.5
47.5°	12894.3	12869.5	13302.5	14102.5	15339.5	15508.6	13995.2	13516.9	12527.3	12176.8	11125.3
50°	12275.7	12403.6	12832.4	13719.0	15615.8	16906.5	15776.6	15133.3	13364.4	13001.5	11974.7
52.5°	10255.2	10341.8	10750.0	11875.8	14675.6	17731.2	17483.8	17112.6	14902.4	14300.4	13455.1
54°	8432.6	8663.5	8886.2	10016.0	13001.5	17273.5	18419.8	18135.3	15904.4	15380.8	14387.0
55°	7344.0	7480.1	7640.9	8766.6	11842.8	16498.2	18312.6	18337.3	16576.6	15718.9	15013.8
57.5°	5364.7	5459.5	5294.6	5793.6	8131.6	13397.3	16749.8	17417.8	17483.8	16226.1	15397.2
60°	4098.8	4140.0	3954.5	4032.8	5055.4	9195.5	12956.1	13760.2	15772.5	14180.8	13042.7
62.5°	3179.2	3187.5	3183.4	3319.4	3484.4	5410.1	8102.7	8816.1	10873.7	10069.7	8857.3
65°	2342.2	2305.1	2371.0	2783.4	2973.1	3401.9	4267.9	4787.4	5909.0	4989.5	3566.9
67.5°	1517.5	1529.8	1595.8	2070.0	2548.3	2610.2	2626.7	2585.5	2589.6	1426.7	894.8
70°	911.3	931.9	911.3	1171.1	1822.6	1872.1	1711.3	1670.0	1303.0	338.1	334.0
72.5°	540.2	511.3	457.7	503.1	758.7	907.2	816.5	812.3	511.3	197.9	197.9
75°	226.8	206.2	169.1	152.6	202.1	193.8	193.8	173.2	136.1	132.0	123.7
77.5°	45.4	45.4	33.0	37.1	49.5	57.7	70.1	70.1	82.5	82.5	78.3
80°	0.0	4.1	12.4	24.7	37.1	53.6	61.9	61.9	70.1	70.1	57.7
82.5°	0.0	4.1	12.4	24.7	33.0	49.5	61.9	61.9	70.1	74.2	61.9
85°	0.0	4.1	12.4	20.6	33.0	41.2	41.2	37.1	28.9	24.7	16.5
87.5°	0.0	0.0	4.1	8.2	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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°	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2	7950.2
2.5°	7987.3	7983.1	7884.2	7723.4	7686.3	7550.2	7533.7	7451.2	7496.6	7344.0	7327.5
5°	7921.3	7871.8	7752.2	7649.1	7348.1	7133.7	6964.6	6758.5	6638.9	6659.5	6581.1
7.5°	8016.1	7888.3	7678.0	7319.3	6952.3	6577.0	6375.0	5954.4	5801.8	5575.0	5542.0
10°	7917.2	7822.3	7496.6	6902.8	6395.6	5855.4	5381.2	4915.2	4560.6	4408.1	4375.1
12.5°	7908.9	7744.0	7199.7	6539.9	5805.9	5030.7	4342.1	3760.7	3410.2	3212.2	3166.9
15°	7781.1	7583.2	6865.7	5979.1	4964.7	3999.8	3249.3	2688.5	2420.5	2305.1	2338.0
17.5°	7793.5	7496.6	6531.7	5385.3	4135.9	2936.0	2218.5	1929.8	1859.7	1888.6	1888.6
20°	7781.1	7302.8	6127.6	4700.8	3166.9	2037.0	1628.8	1525.7	1571.1	1661.8	1641.2
22.5°	7715.1	7212.0	5756.4	3979.2	2329.8	1509.2	1307.2	1311.3	1381.4	1492.7	1517.5
25°	7764.6	7010.0	5286.4	3249.3	1698.9	1204.1	1134.0	1162.8	1237.1	1319.5	1336.0
27.5°	7727.5	6865.7	4795.7	2523.6	1241.2	1035.0	1030.9	1063.9	1096.9	1158.7	1158.7
30°	7768.7	6733.7	4313.2	1876.2	1022.6	948.4	931.9	956.7	989.6	1002.0	997.9
32.5°	7921.3	6634.8	3756.5	1402.0	903.1	865.9	865.9	865.9	861.8	878.3	882.4
35°	8255.3	6651.2	3265.8	1084.5	824.7	795.8	783.5	767.0	758.7	767.0	771.1
37.5°	8618.2	6643.0	2758.6	923.7	767.0	742.2	713.4	688.6	684.5	692.8	680.4
40°	8779.0	6721.3	2288.6	828.8	713.4	684.5	639.1	618.5	622.7	630.9	622.7
42.5°	8997.5	6746.1	1983.4	754.6	663.9	618.5	589.7	564.9	560.8	573.2	569.0
45°	8993.4	6605.9	1661.8	713.4	618.5	569.0	531.9	511.3	511.3	519.6	523.7
47.5°	9257.3	6585.3	1426.7	676.3	585.5	536.1	490.7	474.2	470.1	470.1	461.8
50°	9871.7	6873.9	1245.3	635.0	544.3	498.9	461.8	441.2	424.7	416.5	412.4
52.5°	11071.7	7772.8	1105.1	585.5	498.9	461.8	428.8	412.4	391.7	371.1	367.0
54°	12234.5	8700.6	1096.9	544.3	461.8	437.1	408.2	400.0	375.2	346.4	338.1
55°	12758.2	9240.8	1125.7	511.3	437.1	420.6	395.9	387.6	362.9	329.9	325.8
57.5°	13191.2	9451.1	1109.2	424.7	395.9	391.7	371.1	358.7	329.9	284.5	276.3
60°	10618.1	7146.1	795.8	375.2	362.9	354.6	338.1	329.9	292.8	243.3	239.2
62.5°	6709.0	4111.2	507.2	329.9	317.5	305.1	284.5	276.3	243.3	193.8	181.4
65°	2857.6	1703.0	342.3	292.8	272.2	251.5	235.0	222.7	193.8	144.3	140.2
67.5°	742.2	606.2	284.5	255.7	226.8	197.9	185.6	164.9	132.0	99.0	94.8
70°	334.0	305.1	239.2	214.4	181.4	152.6	136.1	115.5	86.6	66.0	61.9
72.5°	197.9	193.8	181.4	160.8	136.1	115.5	99.0	78.3	57.7	37.1	37.1
75°	123.7	119.6	123.7	111.3	94.8	86.6	74.2	53.6	33.0	16.5	16.5
77.5°	74.2	74.2	74.2	70.1	66.0	66.0	53.6	33.0	16.5	4.1	4.1
80°	57.7	57.7	61.9	57.7	57.7	57.7	45.4	24.7	8.2	0.0	0.0
82.5°	57.7	61.9	70.1	66.0	57.7	49.5	41.2	24.7	8.2	0.0	0.0
85°	16.5	12.4	20.6	28.9	41.2	37.1	28.9	20.6	8.2	0.0	0.0
87.5°	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	4.1	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)