

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: P459334

Luminaire Tested: **GALN-SA8A-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34096 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

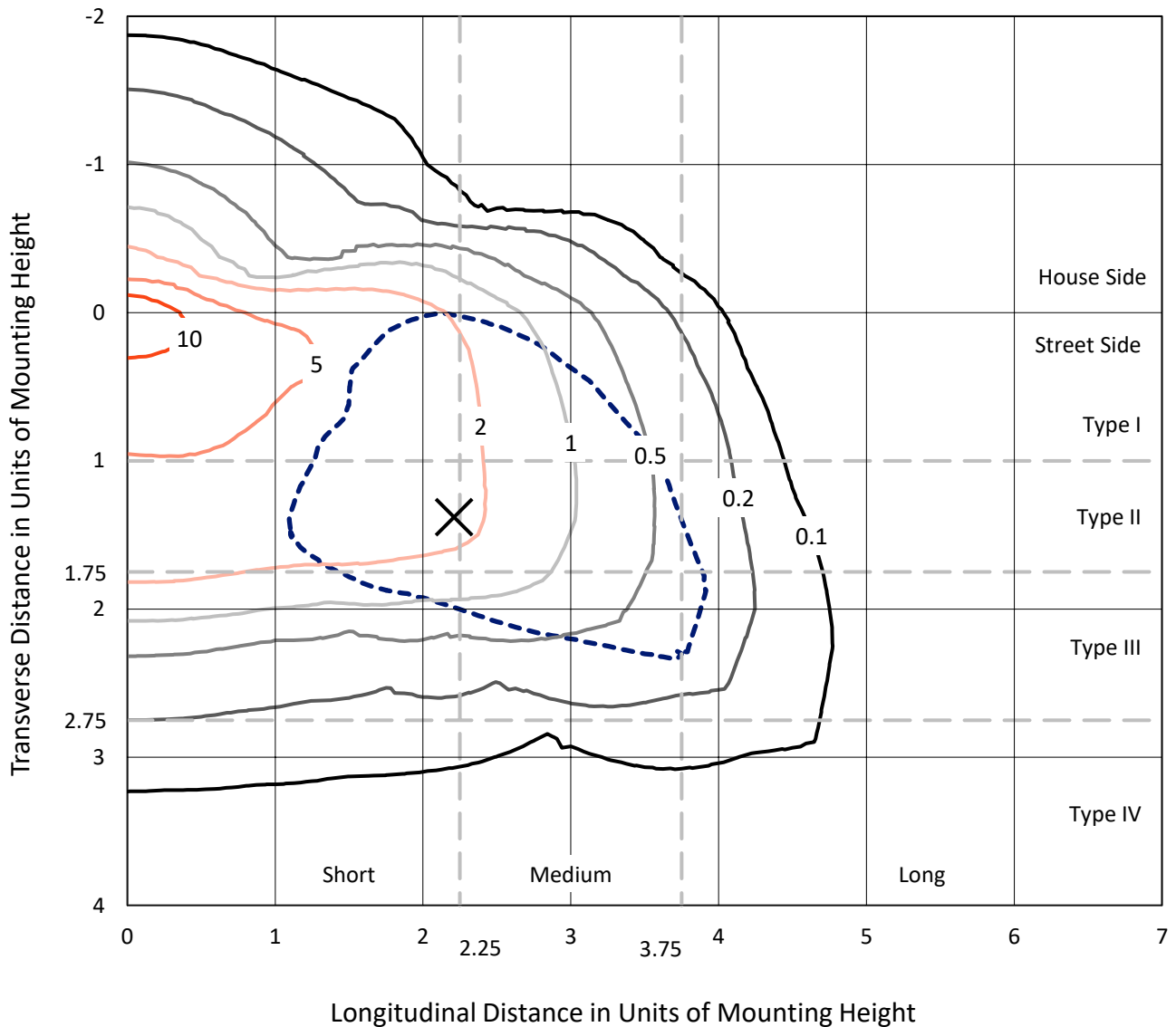
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

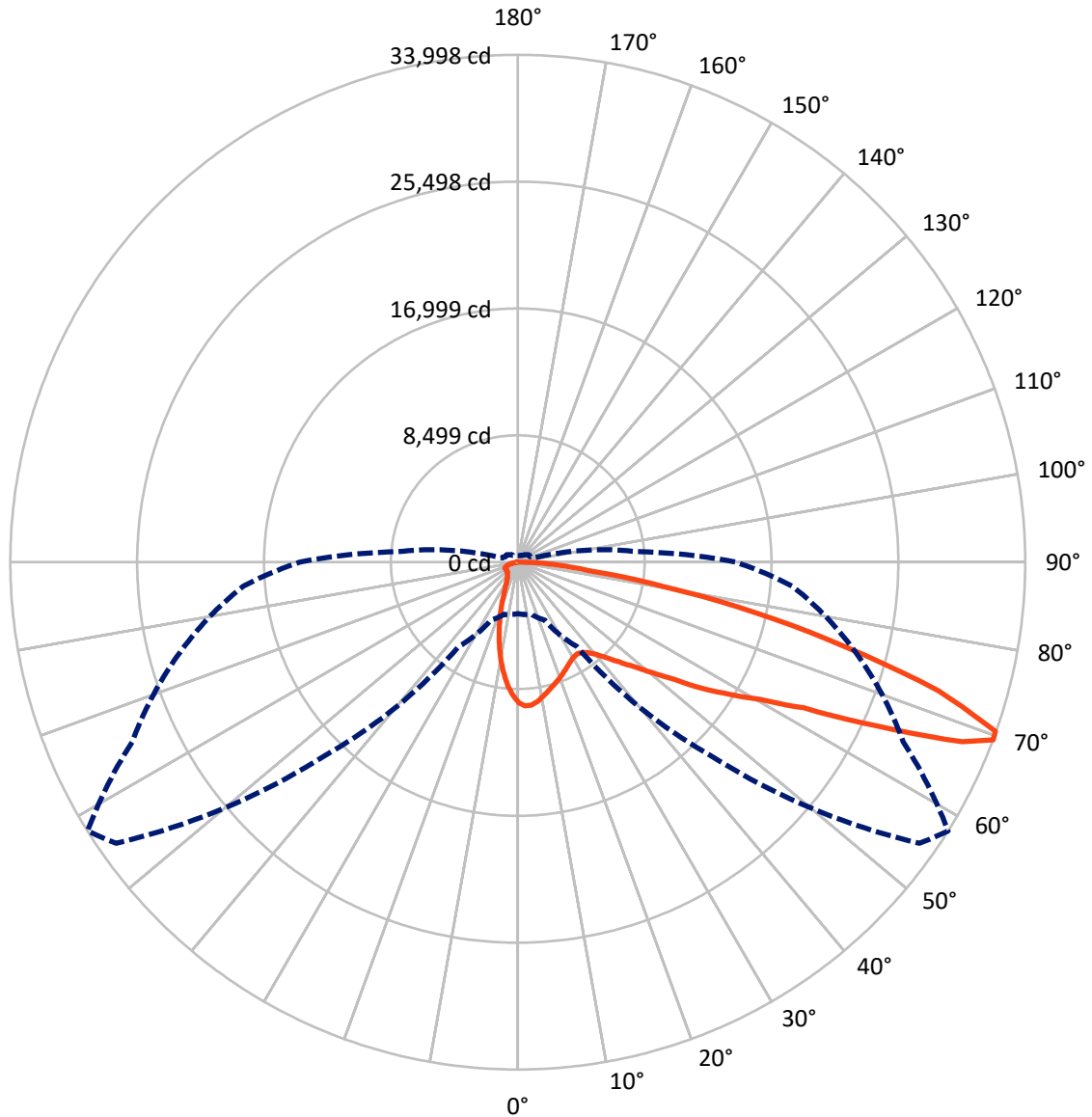
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4996.8	0.0	4996.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	29099.2	0.0	29099.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	34096.0	0.0	34096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.2	2.3
10°-20°	1757.0	5.2
20°-30°	2270.1	6.7
30°-40°	2948.4	8.6
40°-50°	4286.6	12.6
50°-60°	6840.0	20.1
60°-70°	9137.4	26.8
70°-80°	5267.3	15.4
80°-90°	788.9	2.3
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°	34096.0	100.0
0°-180°	34096.0	100.0

Coefficient of Utilization



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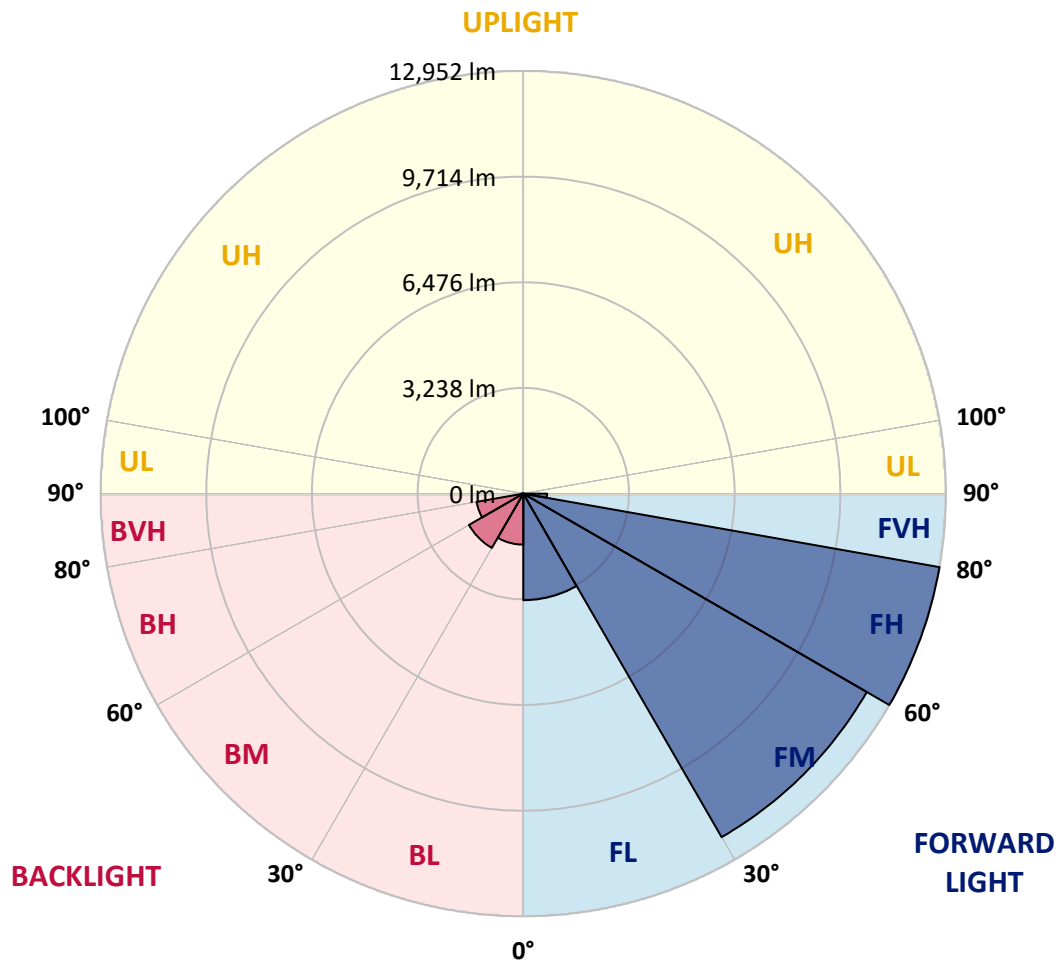
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3265.5	9.6			
FM	(30°-60°)	12153.4	35.6			
FH	(60°-80°)	12951.8	38.0			G5
FVH	(80°-90°)	728.5	2.1			G4/750
BL	(0°-30°)	1561.8	4.6	B3/2500		
BM	(30°-60°)	1921.6	5.6	B2/2500		
BH	(60°-80°)	1453.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	60.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1
2.5°	9772.0	9798.6	9791.0	9781.5	9766.3	9724.5	9656.0	9644.6	9600.9	9507.7	9391.7
5°	9621.8	9644.6	9646.5	9659.8	9678.8	9671.2	9621.8	9616.1	9551.4	9425.9	9232.0
7.5°	9106.5	9136.9	9203.5	9277.6	9344.2	9406.9	9422.1	9431.6	9391.7	9247.2	8988.6
10°	8526.5	8556.9	8587.4	8697.7	8861.2	9017.1	9146.4	9163.5	9173.0	9039.9	8724.3
12.5°	7883.8	7946.5	8011.2	8174.7	8393.4	8638.7	8866.9	8903.0	8967.7	8866.9	8496.1
15°	7338.0	7402.7	7495.9	7642.3	7906.6	8260.3	8581.7	8640.6	8768.0	8716.7	8283.1
17.5°	6959.6	6982.5	7047.1	7214.4	7499.7	7872.4	8302.1	8420.0	8623.5	8610.2	8100.6
20°	6661.1	6689.6	6729.6	6832.2	7128.9	7522.5	8041.6	8193.7	8469.5	8515.1	7919.9
22.5°	6535.6	6556.5	6550.8	6606.0	6807.5	7203.0	7777.3	7958.0	8332.6	8450.5	7752.6
25°	6543.2	6562.2	6533.7	6520.4	6640.2	6921.6	7501.6	7731.7	8222.3	8406.7	7600.5
27.5°	6670.6	6683.9	6630.7	6577.4	6586.9	6746.7	7273.4	7528.2	8129.1	8425.7	7473.1
30°	6841.7	6866.5	6832.2	6767.6	6697.2	6704.8	7127.0	7378.0	8085.4	8492.3	7412.2
32.5°	7062.3	7085.1	7069.9	7018.6	6927.3	6826.5	7090.8	7322.8	8089.2	8627.3	7398.9
35°	7294.3	7340.0	7364.7	7360.9	7286.7	7111.8	7233.5	7425.5	8180.4	8853.6	7476.9
37.5°	7556.7	7594.8	7701.2	7769.7	7701.2	7497.8	7554.8	7687.9	8382.0	9180.6	7648.0
40°	7811.5	7868.6	8024.5	8237.5	8210.9	8032.1	8045.4	8132.9	8737.6	9667.4	7982.7
42.5°	8077.7	8146.2	8418.1	8733.8	8796.5	8657.7	8693.8	8771.8	9243.4	10342.5	8556.9
45°	8420.0	8501.8	8836.5	9230.1	9477.3	9391.7	9494.4	9532.4	9920.3	11221.0	9313.8
47.5°	8861.2	8956.3	9368.9	9859.5	10209.4	10287.3	10466.1	10443.3	10758.9	12261.1	10294.9
50°	9604.7	9657.9	10047.7	10547.9	11028.9	11380.7	11574.7	11610.8	11799.1	13272.8	11392.1
52.5°	10488.9	10536.4	10817.9	11255.2	11858.0	12603.4	13082.6	12964.7	13010.3	14505.0	12675.7
55°	11483.4	11563.3	11742.0	12033.0	12814.5	13911.7	14873.9	14902.4	14396.6	15683.9	13906.0
57.5°	12253.5	12388.5	12694.7	13109.2	14099.9	15366.4	16659.4	16678.4	16031.9	16942.7	15263.7
60°	11865.6	12025.3	12725.1	13734.8	15786.6	17904.9	18792.9	18684.5	17623.5	18376.5	16919.9
62.5°	10192.3	10220.8	11238.1	12816.4	16305.7	21301.1	21968.5	21510.2	19747.5	20194.4	18602.8
65°	6596.4	6782.8	7589.1	9800.5	14600.0	23185.5	27532.4	26473.3	22725.3	22257.5	20011.8
67.5°	4164.4	4116.8	4451.5	5596.2	10042.0	21525.5	32280.6	32113.2	26619.7	23560.1	19675.3
69°	3453.2	3506.4	3620.5	4289.9	6910.2	18378.4	32841.5	33997.7	28507.9	23457.4	18452.6
70°	3131.8	3156.6	3276.4	3803.1	5331.9	15393.0	31921.2	33946.3	29249.5	23027.7	17566.4
72.5°	2485.3	2483.4	2688.8	3164.2	3985.6	8787.0	26210.8	29472.0	28420.4	21027.2	14514.5
75°	1888.2	1918.7	2144.9	2677.4	3671.9	4801.4	18290.9	22696.8	22698.7	16608.1	9057.0
77.5°	1361.5	1380.5	1644.8	2247.6	3458.9	3892.5	12183.2	16279.1	15303.6	7610.0	2846.6
80°	891.8	903.2	1104.8	1779.8	3118.5	3671.9	7224.0	9964.1	7218.3	2019.4	941.3
82.5°	488.7	545.7	675.0	1152.3	2502.4	3392.4	4390.7	5042.9	2707.8	899.4	490.6
85°	245.3	260.5	380.3	673.1	1635.3	2806.7	3057.7	2892.2	1397.6	446.9	254.8
87.5°	72.3	91.3	157.8	260.5	663.6	1462.3	1701.9	1526.9	538.1	161.6	53.2
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°	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1	9422.1
2.5°	9344.2	9309.9	9157.8	9020.9	8895.4	8762.3	8650.1	8551.2	8560.7	8562.6	8461.9
5°	9131.2	9053.2	8764.2	8494.2	8266.0	7977.0	7729.8	7570.0	7490.2	7383.7	7421.7
7.5°	8842.2	8691.9	8290.7	7842.0	7421.7	7047.1	6640.2	6360.7	6181.9	6008.9	6031.7
10°	8543.6	8302.1	7718.4	7125.1	6581.2	5982.2	5463.1	5018.2	4687.3	4563.7	4481.9
12.5°	8237.5	7919.9	7178.3	6389.2	5638.1	4921.2	4185.3	3708.0	3342.9	3149.0	3173.7
15°	7958.0	7571.9	6615.5	5653.3	4677.8	3824.0	3090.0	2635.5	2380.7	2327.5	2357.9
17.5°	7699.3	7193.5	6088.7	4938.3	3799.3	2867.5	2321.8	2065.1	1962.4	1933.9	1932.0
20°	7433.1	6872.2	5497.4	4173.9	2960.7	2222.9	1905.3	1785.5	1766.5	1777.9	1779.8
22.5°	7163.1	6474.7	4888.9	3415.2	2357.9	1817.9	1665.8	1633.4	1648.6	1675.3	1679.1
25°	6914.0	6124.9	4303.2	2749.6	1882.5	1597.3	1523.1	1523.1	1557.4	1597.3	1599.2
27.5°	6708.6	5786.4	3719.4	2183.0	1576.4	1437.6	1412.8	1426.2	1473.7	1504.1	1506.0
30°	6539.4	5470.7	3168.0	1749.4	1386.2	1310.2	1304.5	1327.3	1361.5	1390.0	1391.9
32.5°	6412.0	5193.1	2652.7	1469.9	1255.0	1213.2	1211.3	1228.4	1247.4	1255.0	1262.6
35°	6362.6	4963.0	2181.1	1293.0	1167.5	1140.9	1140.9	1139.0	1146.6	1150.4	1154.2
37.5°	6402.5	4786.2	1816.0	1179.0	1102.9	1083.9	1072.5	1061.1	1057.3	1057.3	1059.2
40°	6571.7	4693.0	1544.1	1104.8	1057.3	1028.7	1007.8	994.5	981.2	985.0	988.8
42.5°	6931.1	4710.1	1359.6	1055.4	1017.3	977.4	947.0	931.8	922.2	933.7	931.8
45°	7503.5	4881.3	1241.7	1021.1	977.4	926.1	897.5	882.3	882.3	899.4	905.1
47.5°	8304.0	5208.3	1179.0	994.5	947.0	886.1	857.6	846.2	850.0	878.5	880.4
50°	9281.4	5776.9	1167.5	981.2	931.8	857.6	825.3	813.9	823.4	853.8	857.6
52.5°	10359.6	6509.0	1222.7	983.1	918.4	840.5	798.6	781.5	791.0	815.8	823.4
55°	11637.4	7425.5	1365.3	990.7	899.4	831.0	779.6	741.6	753.0	770.1	772.0
57.5°	12941.9	8581.7	1616.3	992.6	884.2	813.9	747.3	697.9	697.9	709.3	715.0
60°	14535.4	9840.5	1947.2	994.5	886.1	789.1	703.6	648.4	640.8	646.5	648.4
62.5°	16117.5	10893.9	2002.3	988.8	905.1	764.4	656.0	599.0	585.7	583.8	580.0
65°	16815.3	10698.1	1641.0	962.2	926.1	749.2	618.0	551.4	528.6	521.0	521.0
67.5°	15678.2	9049.4	1234.1	926.1	912.7	734.0	581.9	511.5	484.9	469.7	469.7
69°	14609.5	8049.2	1108.6	901.3	878.5	709.3	559.1	490.6	458.3	441.2	435.5
70°	13784.3	7360.9	1055.4	880.4	846.2	680.8	541.9	475.4	439.3	420.2	416.4
72.5°	11000.4	5775.0	924.1	800.5	720.7	572.4	481.1	427.8	393.6	372.7	367.0
75°	6339.7	3129.9	766.3	696.0	580.0	445.0	406.9	372.7	346.1	327.1	321.4
77.5°	1951.0	1209.4	555.3	549.5	425.9	344.2	325.2	311.9	292.8	271.9	268.1
80°	821.5	616.1	376.5	370.8	283.3	239.6	233.9	232.0	224.4	207.3	201.6
82.5°	450.7	348.0	262.4	228.2	171.1	138.8	144.5	146.4	140.7	123.6	112.2
85°	220.6	190.2	127.4	102.7	78.0	49.4	47.5	57.0	53.2	38.0	41.8
87.5°	43.7	53.2	34.2	15.2	7.6	0.0	0.0	0.0	0.0	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)