

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: P456871

Luminaire Tested: **GALN-SA8A-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28724 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - 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



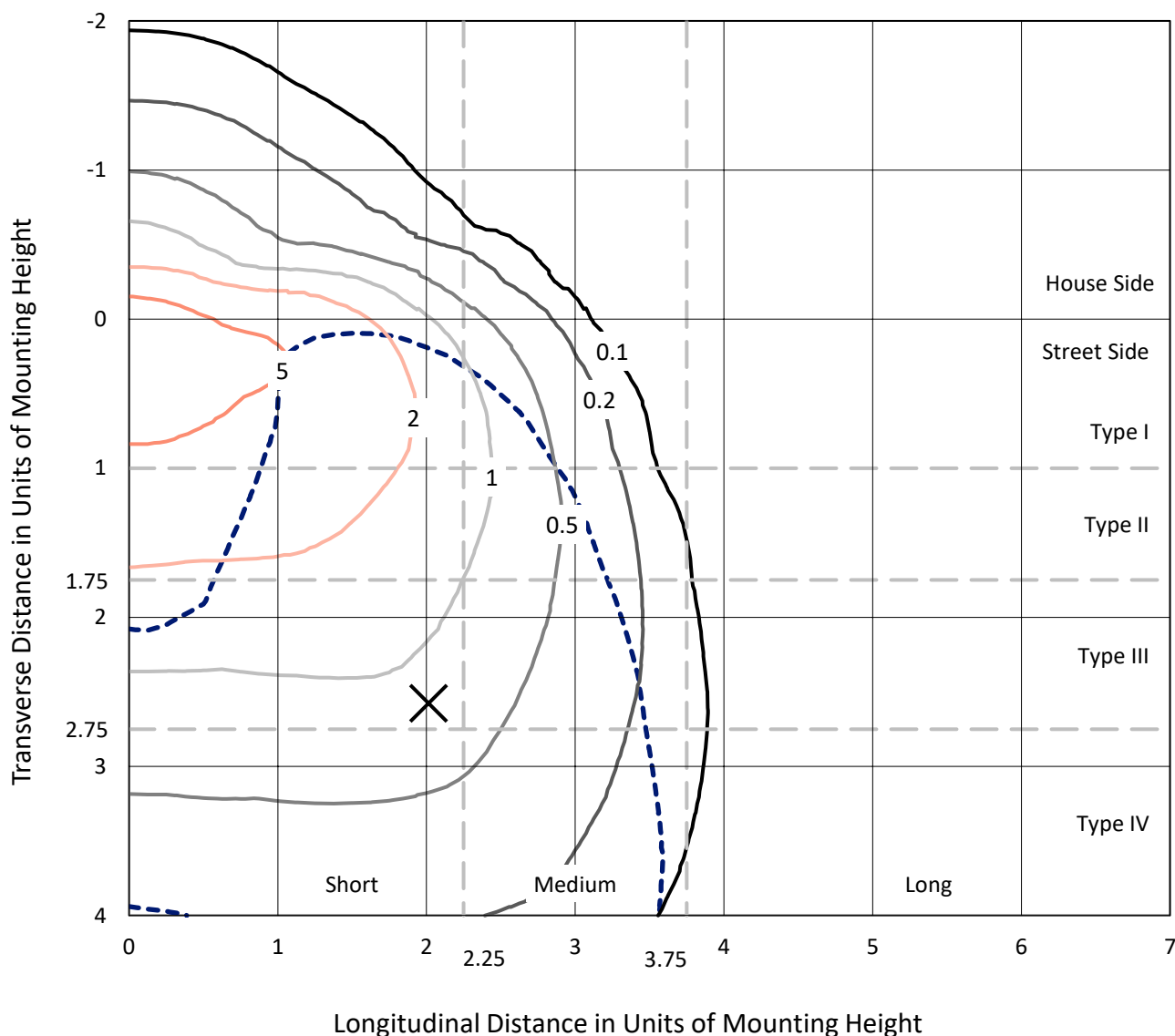
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



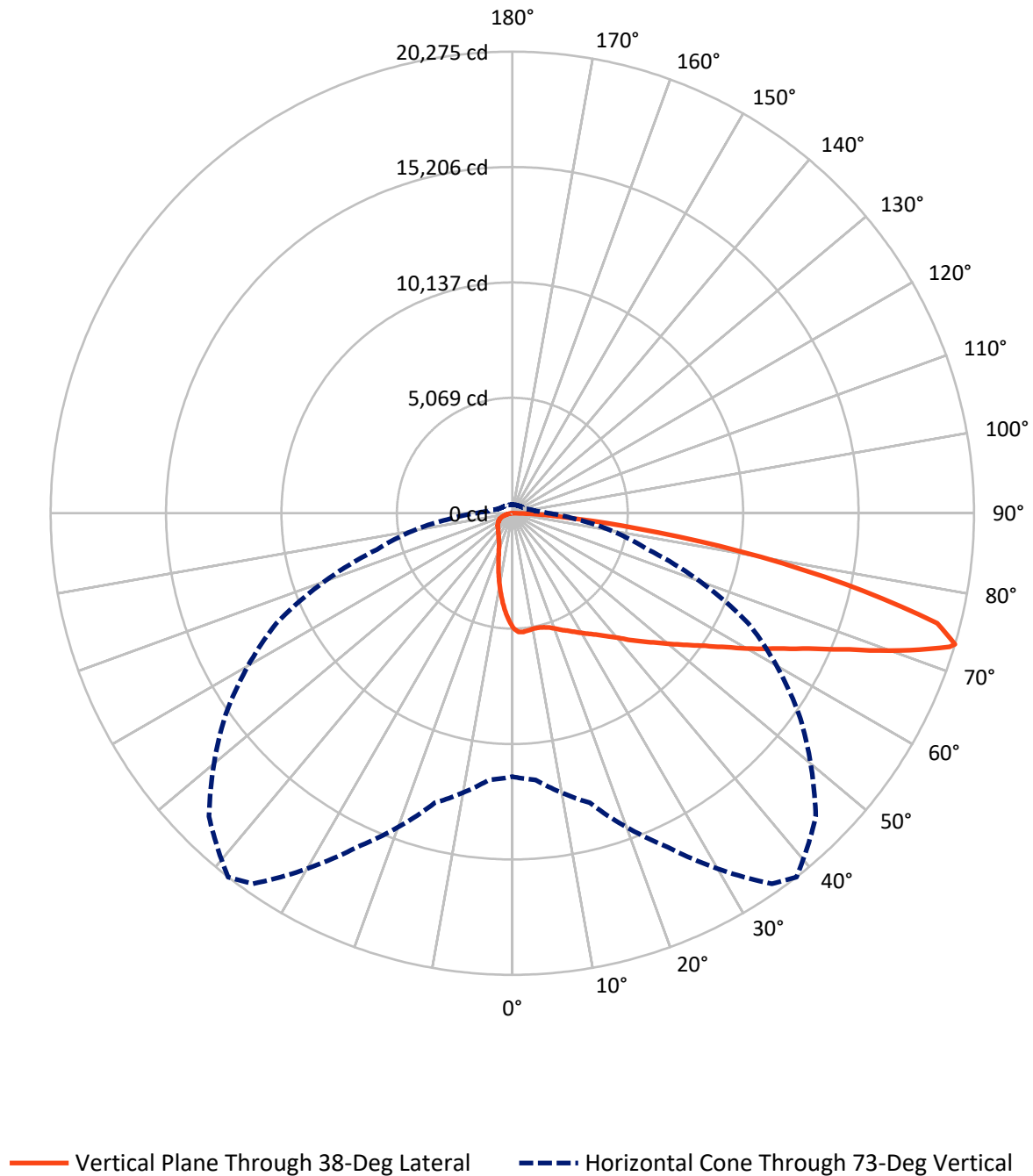
Based on 25 foot mounting height. Maximum calculated value = 8.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3861.4	0.0	3861.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24862.6	0.0	24862.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	28724.0	0.0	28724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.5	1.5
10°-20°	1129.6	3.9
20°-30°	1758.9	6.1
30°-40°	2580.0	9.0
40°-50°	3827.1	13.3
50°-60°	5422.2	18.9
60°-70°	6878.2	23.9
70°-80°	5725.6	19.9
80°-90°	962.0	3.3
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°	28724.0	100.0
0°-180°	28724.0	100.0

Coefficient of Utilization



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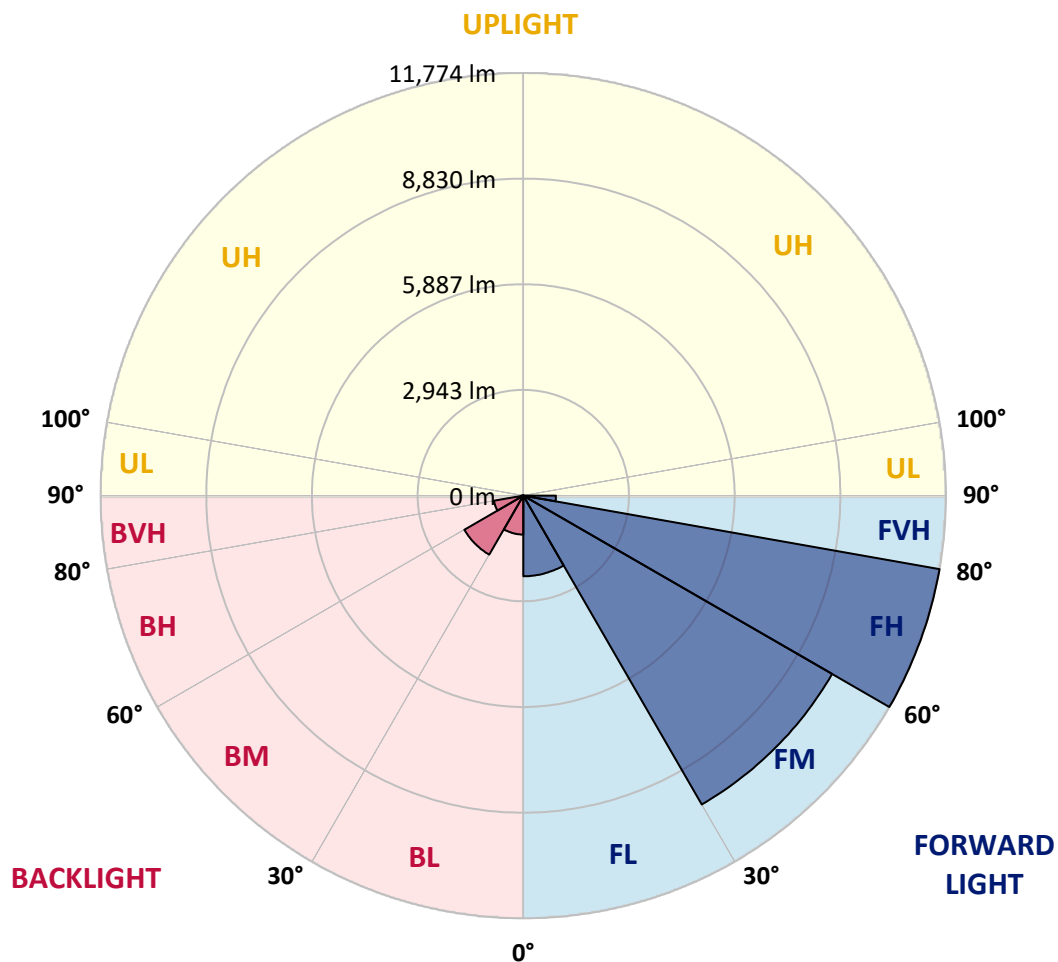
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2245.4	7.8			
FM	(30°-60°)	9933.5	34.6			
FH	(60°-80°)	11773.8	41.0			G4/12000
FVH	(80°-90°)	909.8	3.2			G5
BL	(0°-30°)	1083.5	3.8	B3/2500		
BM	(30°-60°)	1895.7	6.6	B2/2500		
BH	(60°-80°)	830.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	52.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3
2.5°	5249.1	5275.0	5262.1	5244.2	5232.9	5221.5	5205.3	5158.2	5120.9	5080.4	5017.1
5°	5288.0	5304.2	5292.9	5270.2	5244.2	5232.9	5202.0	5140.4	5080.4	5012.3	4918.2
7.5°	5265.3	5271.8	5258.8	5231.2	5208.5	5187.4	5151.8	5083.6	5010.6	4927.9	4804.6
10°	5184.2	5208.5	5208.5	5185.8	5163.1	5151.8	5116.1	5051.2	4984.7	4890.6	4744.6
12.5°	5117.7	5143.6	5164.7	5158.2	5156.6	5156.6	5129.0	5080.4	5002.5	4913.3	4739.7
15°	5072.3	5103.1	5148.5	5174.5	5190.7	5195.6	5184.2	5142.0	5062.5	4958.7	4759.2
17.5°	5062.5	5099.8	5182.6	5239.3	5281.5	5279.9	5276.7	5218.3	5130.7	5023.6	4783.5
20°	5106.3	5155.0	5270.2	5359.4	5421.0	5409.7	5391.8	5315.6	5213.4	5093.4	4806.3
22.5°	5237.7	5288.0	5414.5	5511.9	5571.9	5571.9	5518.3	5417.8	5309.1	5174.5	4837.1
25°	5425.9	5481.0	5615.7	5714.6	5742.2	5721.1	5667.6	5545.9	5421.0	5291.3	4902.0
27.5°	5656.2	5722.7	5847.6	5930.4	5922.2	5906.0	5850.9	5695.2	5570.3	5451.8	5012.3
30°	5943.3	5992.0	6121.8	6141.2	6112.0	6108.8	6030.9	5875.2	5758.4	5667.6	5169.6
32.5°	6214.2	6258.0	6361.8	6369.9	6318.0	6324.5	6251.5	6108.8	6042.3	6009.8	5434.0
35°	6501.3	6524.0	6613.3	6603.5	6569.5	6564.6	6535.4	6399.1	6420.2	6478.6	5808.7
37.5°	6741.4	6786.8	6837.1	6845.2	6843.6	6859.8	6879.3	6814.4	6936.1	7119.4	6300.2
40°	6962.0	7000.9	7075.6	7101.5	7164.8	7197.2	7263.7	7265.3	7546.0	7847.7	6905.2
42.5°	7111.2	7177.7	7317.2	7364.3	7518.4	7615.7	7714.7	7820.1	8227.2	8614.9	7619.0
45°	7241.0	7328.6	7560.6	7706.5	7915.8	8034.2	8243.5	8464.1	9049.6	9557.4	8344.0
47.5°	7437.3	7515.1	7781.2	8039.1	8355.4	8491.6	8804.7	9134.0	9899.6	10456.0	9038.3
50°	7709.8	7756.8	8027.7	8447.8	8851.7	9026.9	9440.6	9915.8	10808.0	11343.3	9648.2
52.5°	8058.5	8078.0	8293.7	8853.4	9385.4	9602.8	10151.0	10705.8	11602.8	12113.8	10131.6
55°	8470.6	8438.1	8606.8	9283.2	9995.3	10279.2	10868.0	11505.5	12496.6	12736.6	10483.6
57.5°	8877.7	8827.4	8962.0	9805.5	10748.0	11090.2	11776.4	12329.5	13294.6	13319.0	10730.1
60°	9309.2	9271.9	9432.4	10418.7	11670.9	12076.5	12710.7	13184.3	14066.8	13724.5	10769.1
62.5°	9752.0	9692.0	9920.7	11108.1	12710.7	13078.9	13693.7	14092.7	14824.3	13875.4	10394.3
65°	10181.9	10154.3	10507.9	11927.2	13894.8	14313.3	14910.2	15181.1	15430.9	13648.3	9464.9
67.5°	10639.3	10694.4	11258.9	13020.5	15439.0	15964.6	16608.6	16353.9	15604.5	12572.8	7970.9
70°	11336.8	11372.5	12245.2	14452.8	17429.4	18063.6	18375.0	16770.8	14767.5	10530.6	5992.0
72.5°	11636.9	11794.2	13125.9	15956.5	19690.5	20078.2	18968.7	15841.3	12301.9	7153.4	3148.5
73°	11570.4	11758.5	13166.5	16185.2	19867.4	20274.5	18842.2	15362.8	11435.7	6160.7	2699.2
75°	10741.5	10973.4	12639.3	15993.8	19523.5	19280.2	16808.1	13093.5	7727.6	2801.3	1229.5
77.5°	8475.4	8541.9	10014.8	12915.1	15374.2	14923.2	12579.3	8183.4	3156.6	1041.4	697.5
80°	4251.5	4496.4	5644.9	7398.3	10280.8	10133.2	7940.1	3870.3	1315.5	611.5	462.3
82.5°	2045.5	2219.0	2749.4	3607.5	5680.6	5545.9	3931.9	2115.2	835.4	356.9	272.5
85°	1317.1	1446.9	1750.2	1721.0	2335.8	2230.4	1766.5	1601.0	494.7	186.5	189.8
87.5°	869.4	952.2	1142.0	913.2	850.0	768.9	780.2	901.9	97.3	71.4	26.0
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°	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3	5046.3
2.5°	4991.2	4970.1	4900.3	4832.2	4767.3	4705.7	4665.1	4611.6	4575.9	4585.6	4600.2
5°	4866.3	4819.2	4695.9	4575.9	4462.4	4327.7	4219.1	4131.5	4065.0	4040.6	4035.8
7.5°	4734.9	4655.4	4478.6	4272.6	4079.6	3912.5	3719.5	3623.7	3511.8	3472.9	3459.9
10°	4655.4	4548.3	4300.2	4013.0	3722.7	3445.3	3236.1	3065.7	2911.7	2882.5	2867.9
12.5°	4632.7	4491.6	4157.4	3787.6	3401.5	3060.9	2751.1	2527.2	2378.0	2343.9	2293.6
15°	4619.7	4444.5	4024.4	3560.5	3070.6	2655.4	2329.3	2068.2	1931.9	1841.1	1842.7
17.5°	4608.4	4391.0	3875.2	3312.3	2785.1	2306.6	1946.5	1711.3	1586.4	1537.7	1532.9
20°	4592.1	4327.7	3703.2	3051.2	2459.1	1988.7	1662.6	1487.5	1403.1	1362.6	1360.9
22.5°	4585.6	4266.1	3534.5	2785.1	2170.4	1743.7	1474.5	1351.2	1297.7	1270.1	1270.1
25°	4601.9	4222.3	3357.7	2532.1	1914.1	1534.5	1344.7	1260.4	1229.5	1214.9	1210.1
27.5°	4652.2	4202.8	3182.5	2279.0	1678.9	1391.8	1257.1	1198.7	1176.0	1164.7	1166.3
30°	4747.9	4201.2	3010.6	2029.2	1503.7	1283.1	1187.4	1146.8	1129.0	1122.5	1120.9
32.5°	4902.0	4236.9	2841.9	1823.2	1356.1	1192.2	1122.5	1093.3	1085.2	1080.3	1078.7
35°	5163.1	4337.5	2674.8	1635.1	1242.5	1111.1	1060.8	1046.2	1034.9	1039.8	1041.4
37.5°	5515.1	4511.0	2515.9	1487.5	1156.5	1051.1	1008.9	996.0	989.5	994.3	999.2
40°	5987.1	4760.8	2382.8	1369.0	1094.9	1000.8	963.5	952.2	945.7	953.8	955.4
42.5°	6507.8	5049.6	2272.5	1276.6	1044.6	958.7	923.0	910.0	905.1	910.0	911.6
45°	7043.1	5385.3	2215.8	1210.1	1002.5	927.8	890.5	875.9	864.6	861.3	866.2
47.5°	7570.3	5677.3	2214.2	1169.5	968.4	900.3	859.7	843.5	828.9	820.8	819.2
50°	8000.1	5909.3	2253.1	1151.7	939.2	869.4	828.9	812.7	793.2	777.0	780.2
52.5°	8324.6	6060.1	2270.9	1143.6	923.0	837.0	796.4	781.8	759.1	738.1	738.1
55°	8533.8	6095.8	2227.1	1135.5	910.0	802.9	759.1	746.2	723.5	702.4	702.4
57.5°	8605.2	5985.5	2069.8	1116.0	897.0	773.7	721.8	710.5	692.6	671.5	668.3
60°	8439.7	5612.4	1794.0	1057.6	871.1	742.9	681.3	676.4	669.9	652.1	650.5
62.5°	7802.2	4820.8	1493.9	981.4	827.3	710.5	644.0	652.1	656.9	647.2	645.6
65°	6741.4	3914.1	1276.6	875.9	768.9	665.1	603.4	624.5	637.5	637.5	634.2
67.5°	5468.1	3005.7	1075.4	785.1	695.9	603.4	558.0	574.2	584.0	580.7	588.8
70°	3886.5	2035.7	875.9	681.3	603.4	533.7	499.6	499.6	493.1	489.9	489.9
72.5°	1884.9	1163.0	710.5	569.4	514.2	455.8	428.2	416.9	403.9	402.3	394.2
73°	1575.0	1043.0	678.0	548.3	493.1	444.5	413.6	395.8	387.7	381.2	379.6
75°	958.7	791.6	566.1	462.3	420.1	382.8	355.2	339.0	330.9	326.0	324.4
77.5°	631.0	590.4	439.6	353.6	321.2	298.5	287.1	270.9	266.0	259.5	259.5
80°	470.4	450.9	314.7	249.8	230.3	210.9	207.6	204.4	191.4	183.3	180.1
82.5°	303.3	321.2	214.1	167.1	146.0	129.8	131.4	136.3	123.3	111.9	108.7
85°	215.7	232.0	129.8	76.2	61.6	53.5	60.0	53.5	55.2	43.8	35.7
87.5°	35.7	61.6	22.7	9.7	4.9	3.2	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)