

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: P456886

Luminaire Tested: **GALN-SA8A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29280 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244
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

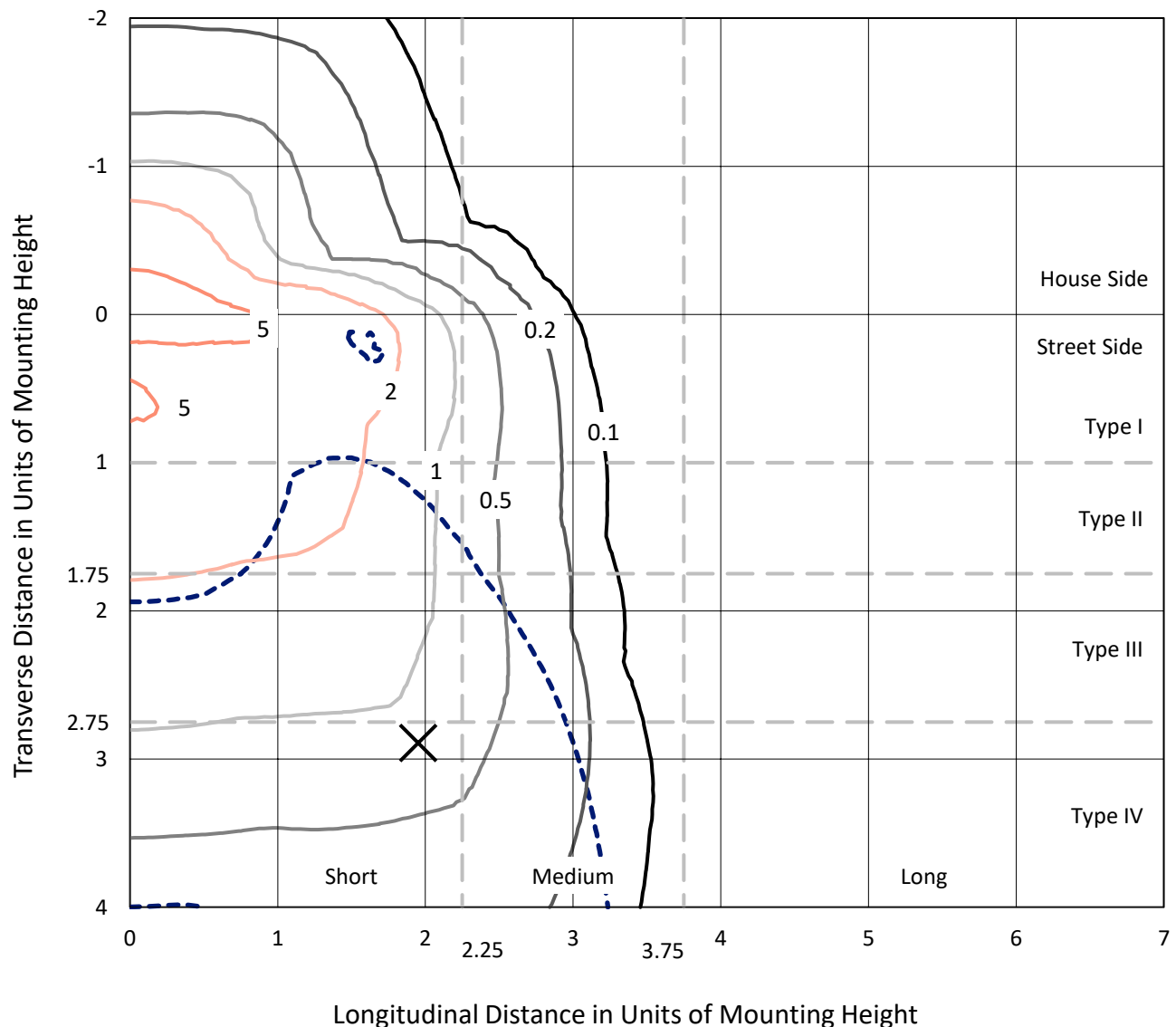


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

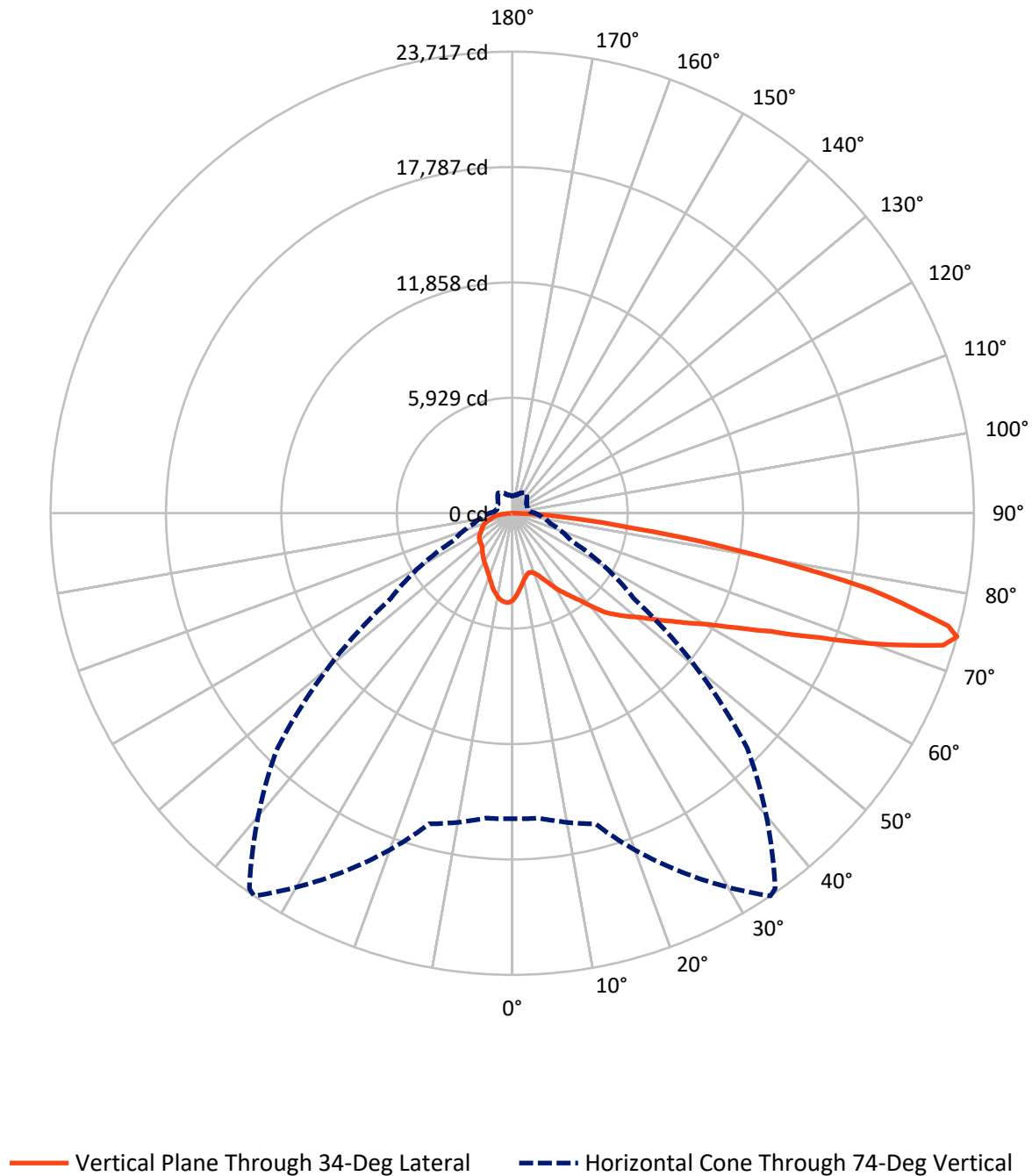


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6231.0	0.0	6231.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	23049.0	0.0	23049.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	29280.0	0.0	29280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	1.4
10°-20°	1113.0	3.8
20°-30°	1835.0	6.3
30°-40°	2748.6	9.4
40°-50°	3995.7	13.6
50°-60°	5581.1	19.1
60°-70°	6987.2	23.9
70°-80°	5777.9	19.7
80°-90°	834.9	2.9
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°	29280.0	100.0
0°-180°	29280.0	100.0

Coefficient of Utilization



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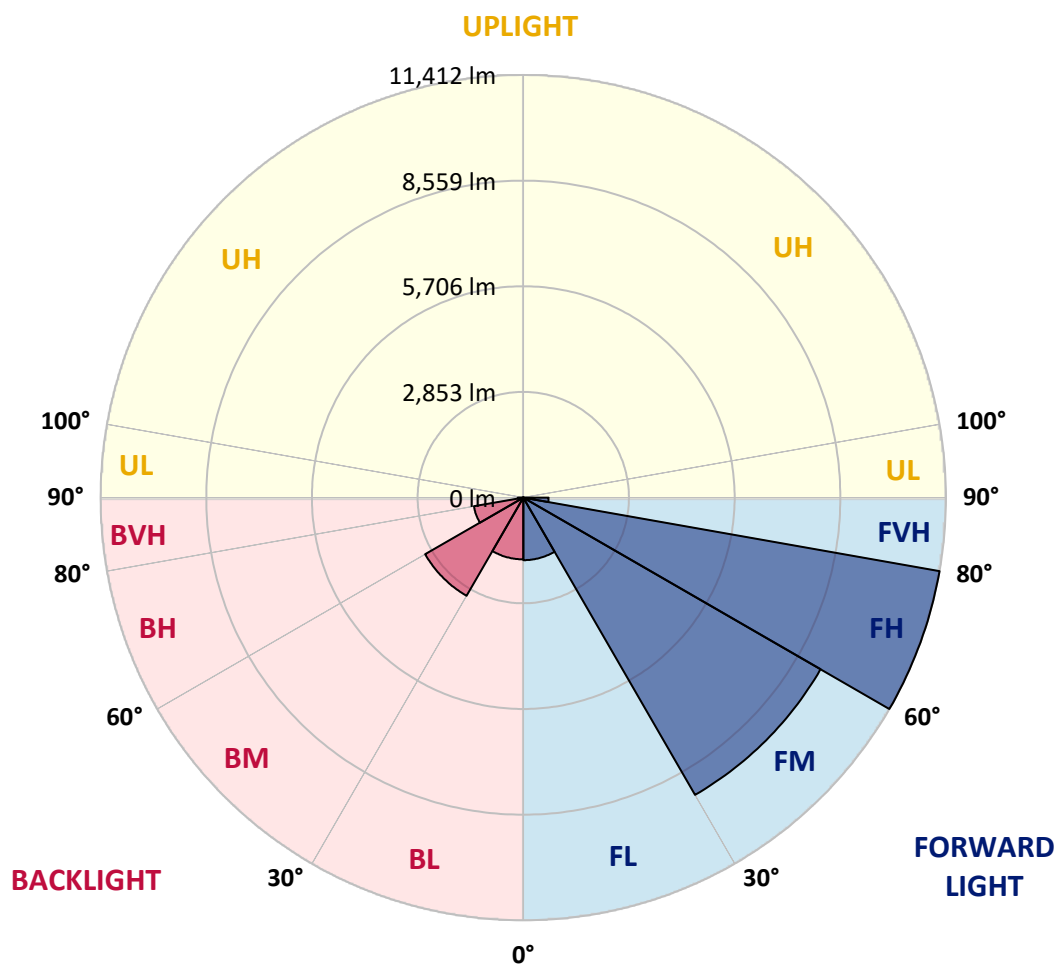
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1687.9	5.8			
FM	(30°-60°)	9265.4	31.6			
FH	(60°-80°)	11411.8	39.0			G4/12000
FVH	(80°-90°)	683.9	2.3			G4/750
BL	(0°-30°)	1666.7	5.7	B3/2500		
BM	(30°-60°)	3060.1	10.5	B3/5000		
BH	(60°-80°)	1353.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	150.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5
2.5°	4131.5	4152.5	4163.9	4204.5	4214.2	4227.2	4261.2	4306.6	4365.0	4416.9	4462.4
5°	3787.6	3820.0	3839.5	3875.2	3944.9	3951.4	4042.2	4146.1	4264.5	4374.8	4465.6
7.5°	3461.5	3497.2	3513.4	3578.3	3670.8	3685.4	3818.4	3982.2	4180.1	4347.2	4486.7
10°	3216.6	3234.4	3270.1	3318.8	3429.1	3438.8	3612.4	3831.4	4087.7	4334.2	4522.4
12.5°	3083.6	3093.3	3101.4	3153.3	3262.0	3276.6	3458.3	3706.5	4014.7	4344.0	4580.8
15°	3103.1	3106.3	3070.6	3080.3	3167.9	3189.0	3369.1	3623.7	3969.3	4368.3	4668.4
17.5°	3266.9	3255.5	3167.9	3122.5	3184.2	3193.9	3351.2	3591.3	3948.2	4413.7	4759.2
20°	3524.8	3508.6	3357.7	3257.2	3292.8	3301.0	3409.6	3615.6	3969.3	4488.3	4900.3
22.5°	3846.0	3839.5	3610.8	3489.1	3487.5	3487.5	3544.3	3703.2	4032.5	4590.5	5047.9
25°	4295.3	4261.2	3962.8	3805.4	3761.6	3758.4	3751.9	3847.6	4113.6	4699.2	5223.1
27.5°	4756.0	4697.6	4431.5	4189.9	4095.8	4084.4	4042.2	4052.0	4217.4	4822.5	5422.6
30°	5169.6	5132.3	4882.5	4614.8	4502.9	4477.0	4360.2	4306.6	4391.0	5044.7	5740.6
32.5°	5485.9	5463.2	5268.5	5025.2	4859.8	4854.9	4684.6	4640.8	4661.9	5314.0	6103.9
35°	5742.2	5750.3	5651.4	5440.5	5250.7	5223.1	5109.6	5054.4	4992.8	5703.3	6561.3
37.5°	6092.6	6110.4	6103.9	5922.2	5690.3	5696.8	5670.8	5580.0	5416.2	6138.0	7069.1
40°	6478.6	6491.6	6490.0	6420.2	6298.6	6305.1	6295.3	6191.5	5946.6	6691.1	7633.6
42.5°	7012.3	6950.7	6790.1	6859.8	6931.2	6962.0	7028.5	6929.6	6593.8	7281.6	8164.0
45°	7609.2	7492.4	7129.1	7161.5	7425.9	7484.3	7850.9	7714.7	7296.2	7959.6	8788.5
47.5°	7985.5	7870.4	7563.8	7557.3	7907.7	7964.5	8613.3	8563.0	7935.3	8691.2	9550.9
50°	8321.3	8305.1	7959.6	8042.3	8384.6	8468.9	9443.8	9396.8	8572.7	9554.1	10381.4
52.5°	8819.3	8687.9	8412.2	8582.5	9035.0	9145.3	10267.8	10129.9	9158.3	10316.5	11187.5
55°	9043.1	9012.3	8996.1	9143.7	9765.0	9844.5	11069.1	10752.8	9657.9	10962.1	11800.7
57.5°	9641.7	9584.9	9745.5	9846.1	10624.7	10746.3	11906.1	11403.3	10095.9	11474.7	12099.2
60°	10417.1	10386.2	10533.8	10715.5	11585.0	11769.9	12859.9	11958.0	10447.9	11732.6	11935.3
62.5°	11575.2	11572.0	11544.4	11933.7	12945.9	13116.2	13954.8	12498.2	10503.0	11539.5	11088.6
65°	13236.2	13177.8	12937.8	13362.8	14639.4	14838.9	15095.2	12799.9	10170.5	10548.4	9336.7
67.5°	14973.5	14970.3	14775.6	15327.1	17070.9	17276.9	16521.0	12733.4	9247.5	8545.2	6631.1
70°	16413.9	16344.2	16592.3	18062.0	20177.2	20415.6	17768.4	11949.9	7365.9	5643.2	3940.1
72.5°	16759.4	16762.7	17278.5	20170.7	23160.2	23197.5	18217.7	9685.5	4929.5	3112.8	1970.8
74°	15695.3	15722.9	16522.6	20276.1	23716.6	23547.9	17069.2	7612.5	3333.4	2032.5	1420.9
75°	14326.3	14152.7	15309.3	19573.7	23139.1	22957.4	15724.5	6108.8	2543.4	1623.7	1244.1
77.5°	7659.5	7836.3	9620.6	14606.9	18798.4	18589.1	10662.0	2929.5	1373.9	1130.6	895.4
80°	2726.7	3007.4	4227.2	7643.3	12052.1	12117.0	5088.5	1343.1	966.8	833.8	632.6
82.5°	1112.8	1143.6	1815.1	3391.8	6120.1	6178.5	2077.9	798.1	691.0	574.2	377.9
85°	434.7	447.7	802.9	1524.8	2611.6	2781.9	718.6	421.7	425.0	329.3	193.0
87.5°	146.0	165.5	329.3	507.7	887.3	869.4	209.2	124.9	152.5	142.7	60.0
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°	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5
2.5°	4485.1	4515.9	4537.0	4559.7	4580.8	4587.3	4582.4	4597.0	4598.6	4600.2	4601.9
5°	4511.0	4553.2	4593.8	4616.5	4626.2	4618.1	4590.5	4575.9	4562.9	4553.2	4556.4
7.5°	4546.7	4606.7	4644.0	4653.8	4627.8	4590.5	4522.4	4468.9	4434.8	4412.1	4410.5
10°	4601.9	4660.3	4691.1	4663.5	4592.1	4501.3	4394.2	4293.7	4217.4	4194.7	4193.1
12.5°	4671.6	4738.1	4736.5	4655.4	4530.5	4368.3	4194.7	4077.9	3974.1	3922.2	3943.3
15°	4762.5	4812.7	4765.7	4619.7	4421.8	4199.6	3985.5	3826.5	3709.7	3654.6	3657.8
17.5°	4867.9	4911.7	4786.8	4556.4	4269.3	3983.9	3735.7	3584.8	3492.4	3451.8	3448.6
20°	4999.3	5012.3	4786.8	4446.1	4073.1	3732.4	3495.6	3390.2	3338.3	3317.2	3323.7
22.5°	5140.4	5114.4	4760.8	4290.4	3815.2	3469.6	3310.7	3263.6	3237.7	3234.4	3237.7
25°	5299.4	5226.4	4707.3	4079.6	3545.9	3242.6	3150.1	3158.2	3163.1	3163.1	3174.4
27.5°	5494.0	5348.0	4618.1	3813.5	3231.2	3031.7	3005.7	3062.5	3088.5	3093.3	3101.4
30°	5750.3	5481.0	4470.5	3481.0	2963.6	2841.9	2887.3	2963.6	2992.8	3010.6	3007.4
32.5°	6055.3	5627.0	4271.0	3148.5	2747.8	2708.9	2764.0	2841.9	2874.3	2884.1	2871.1
35°	6413.7	5792.5	4008.2	2837.0	2559.7	2582.4	2647.2	2671.6	2700.8	2700.8	2707.3
37.5°	6799.8	5925.5	3687.0	2551.5	2413.7	2496.4	2543.4	2520.7	2507.7	2491.5	2499.6
40°	7192.3	6024.4	3270.1	2269.3	2267.7	2407.2	2420.2	2355.3	2303.4	2287.1	2279.0
42.5°	7534.6	6086.1	2893.8	2050.3	2129.8	2319.6	2329.3	2225.5	2142.8	2094.1	2077.9
45°	7938.5	6157.4	2525.6	1868.6	2001.7	2249.8	2274.2	2134.7	2013.0	1910.8	1884.9
47.5°	8491.6	6319.7	2235.2	1727.5	1909.2	2206.0	2240.1	2060.1	1899.5	1766.5	1745.4
50°	9116.1	6541.9	2009.8	1631.8	1837.8	2167.1	2209.3	1983.8	1794.0	1646.4	1630.2
52.5°	9688.7	6661.9	1815.1	1545.9	1768.1	2095.7	2168.7	1928.7	1690.2	1526.4	1511.8
55°	10001.8	6467.3	1623.7	1461.5	1672.4	2003.3	2112.0	1852.4	1589.6	1463.1	1442.0
57.5°	10044.0	6065.0	1450.1	1370.7	1571.8	1889.7	2006.5	1760.0	1524.8	1419.3	1401.5
60°	9717.9	5464.8	1315.5	1296.0	1469.6	1761.6	1888.1	1678.9	1458.3	1370.7	1352.8
62.5°	8906.9	4812.7	1221.4	1227.9	1365.8	1627.0	1800.5	1601.0	1395.0	1317.1	1300.9
65°	7511.9	3972.5	1130.6	1158.2	1273.3	1521.5	1721.0	1536.1	1331.7	1276.6	1262.0
67.5°	5218.3	2867.9	1056.0	1085.2	1185.7	1414.5	1628.6	1466.4	1260.4	1231.2	1208.5
70°	2888.9	1764.8	968.4	1002.5	1094.9	1294.4	1524.8	1360.9	1156.5	1143.6	1111.1
72.5°	1518.3	1124.1	869.4	906.7	971.6	1140.3	1365.8	1245.8	1054.4	999.2	957.0
74°	1185.7	921.3	802.9	841.9	885.7	1049.5	1271.7	1163.0	981.4	916.5	884.0
75°	1033.3	820.8	746.2	796.4	835.4	987.9	1198.7	1104.6	940.8	879.2	850.0
77.5°	729.9	614.8	609.9	669.9	691.0	866.2	1080.3	1005.7	838.6	773.7	746.2
80°	512.6	460.7	483.4	520.7	549.9	765.6	1002.5	869.4	687.8	611.5	601.8
82.5°	334.2	301.7	345.5	379.6	389.3	564.5	809.4	660.2	501.2	407.1	377.9
85°	154.1	150.9	197.9	193.0	191.4	275.8	480.1	386.1	288.7	215.7	202.8
87.5°	38.9	37.3	48.7	40.6	48.7	42.2	43.8	11.4	1.6	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)