

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: P458118

Luminaire Tested: **GALN-SA9C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458118
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-SA9C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 56816 lumens
Efficiency: N/A
Efficacy: 118.1 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

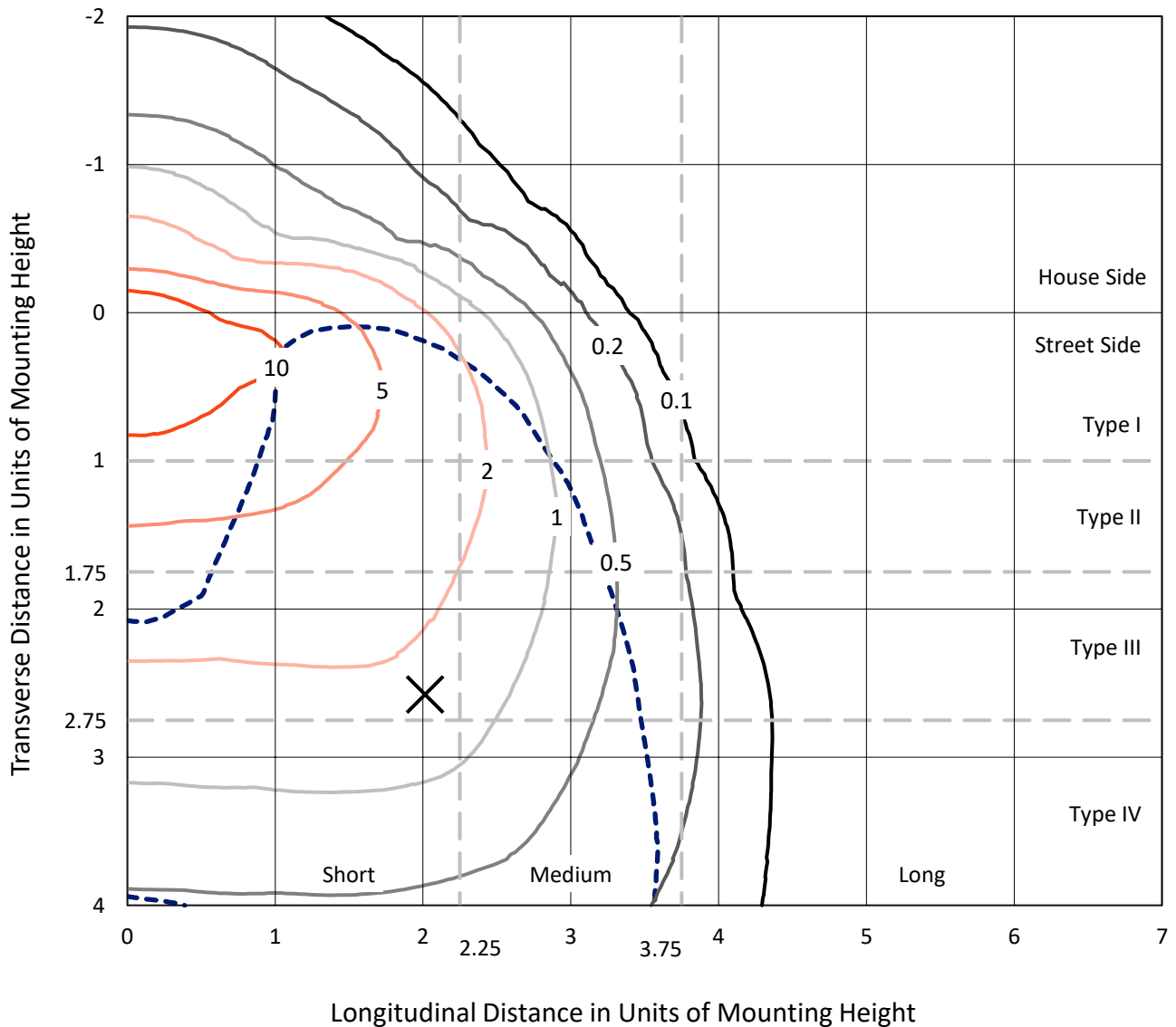
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

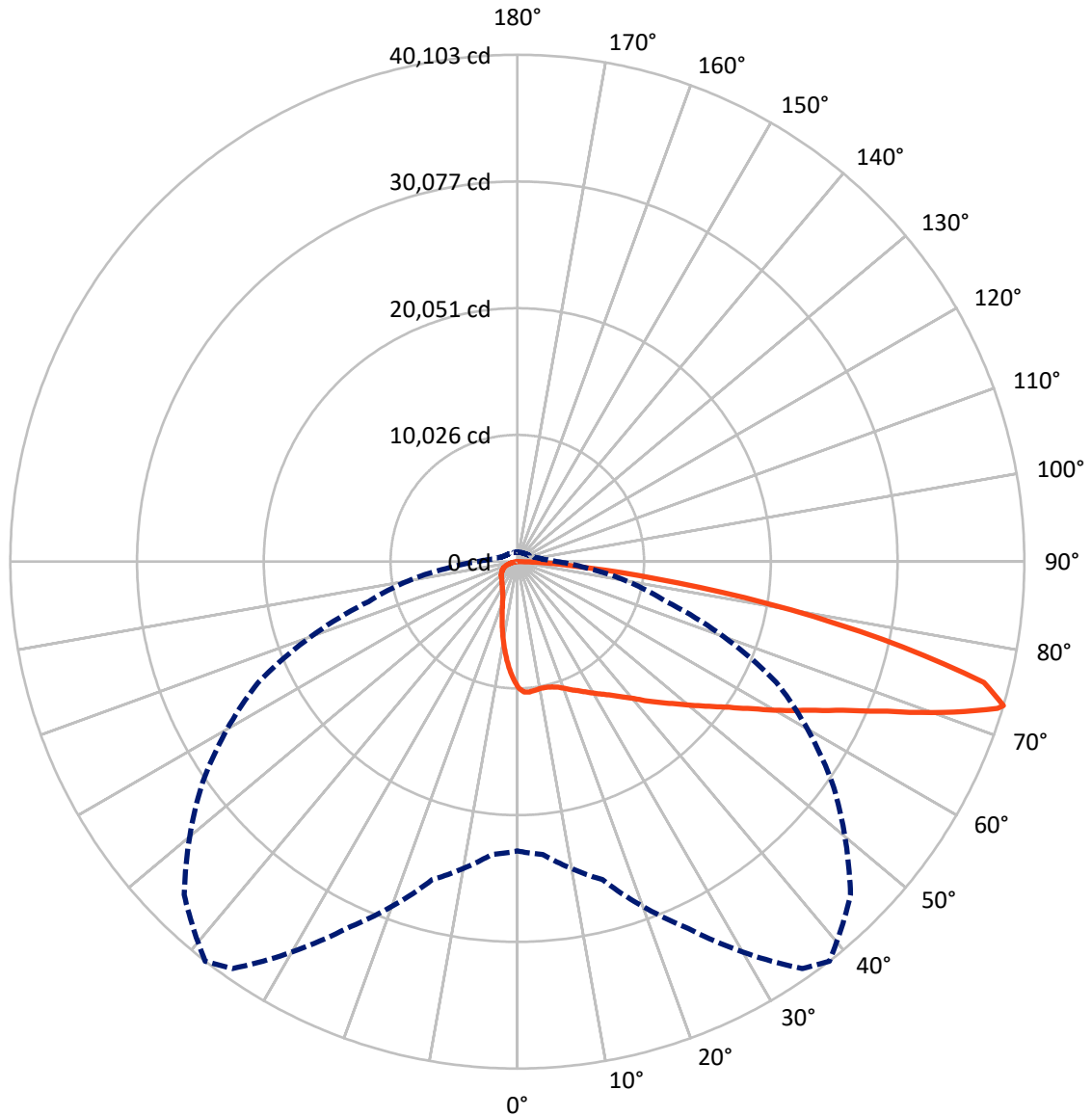
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7637.8	0.0	7637.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	49178.2	0.0	49178.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	56816.0	0.0	56816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.3	1.5
10°-20°	2234.3	3.9
20°-30°	3479.2	6.1
30°-40°	5103.1	9.0
40°-50°	7569.9	13.3
50°-60°	10725.1	18.9
60°-70°	13605.1	23.9
70°-80°	11325.2	19.9
80°-90°	1902.8	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°	56816.0	100.0
0°-180°	56816.0	100.0

Coefficient of Utilization



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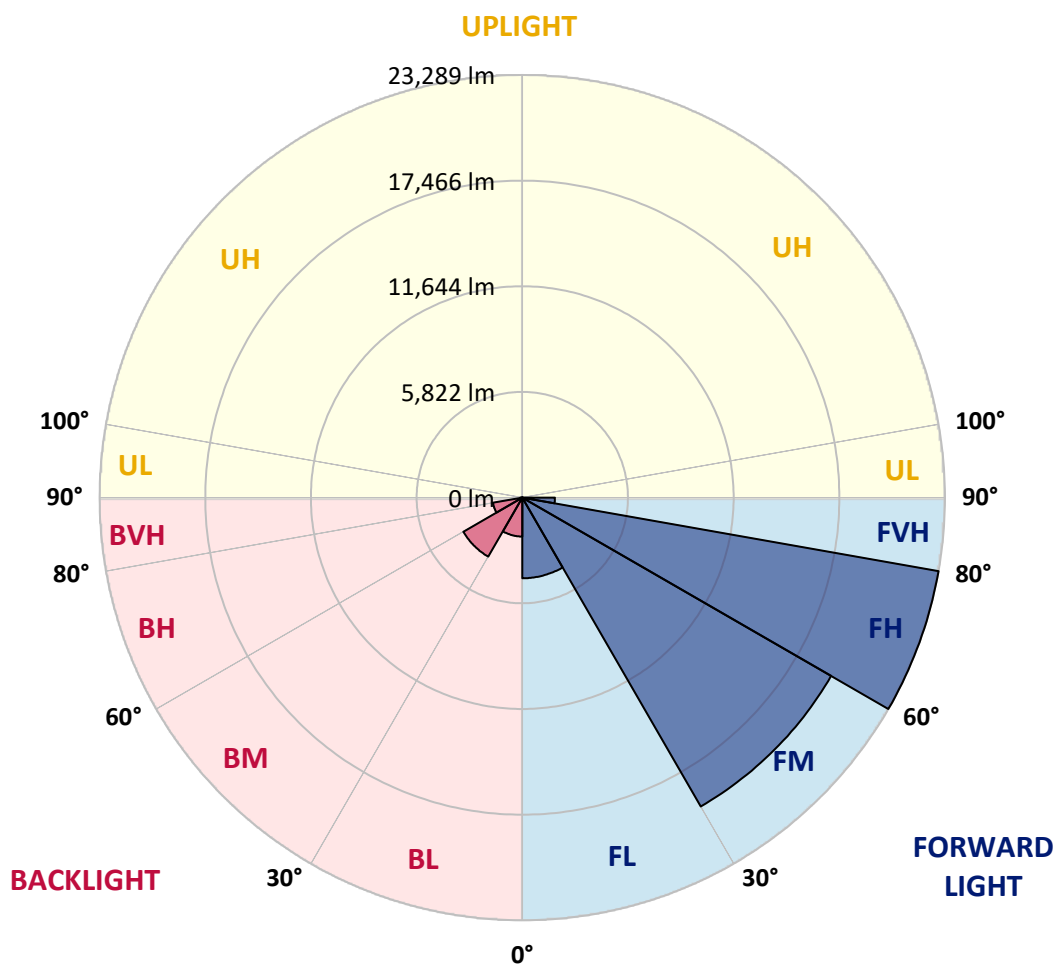
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4441.5	7.8			
FM	(30°-60°)	19648.5	34.6			
FH	(60°-80°)	23288.6	41.0			G5
FVH	(80°-90°)	1799.6	3.2			G5
BL	(0°-30°)	2143.2	3.8	B3/2500		
BM	(30°-60°)	3749.7	6.6	B3/5000		
BH	(60°-80°)	1641.7	2.9	B3/2500		G3/2500
BVH	(80°-90°)	103.2	0.2			G2/225
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°	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6
2.5°	10382.7	10434.0	10408.3	10373.0	10350.6	10328.1	10296.0	10203.0	10129.2	10049.0	9923.9
5°	10459.7	10491.8	10469.3	10424.4	10373.0	10350.6	10289.6	10167.7	10049.0	9914.2	9728.1
7.5°	10414.8	10427.6	10401.9	10347.4	10302.5	10260.7	10190.2	10055.4	9911.0	9747.4	9503.5
10°	10254.3	10302.5	10302.5	10257.5	10212.6	10190.2	10119.6	9991.2	9859.7	9673.6	9384.8
12.5°	10122.8	10174.1	10215.8	10203.0	10199.8	10199.8	10145.2	10049.0	9895.0	9718.5	9375.2
15°	10032.9	10093.9	10183.7	10235.1	10267.2	10276.8	10254.3	10170.9	10013.7	9808.3	9413.7
17.5°	10013.7	10087.5	10251.1	10363.4	10446.8	10443.6	10437.2	10321.7	10148.4	9936.7	9461.8
20°	10100.3	10196.6	10424.4	10600.8	10722.8	10700.3	10665.0	10514.2	10312.1	10074.7	9506.8
22.5°	10360.2	10459.7	10709.9	10902.4	11021.2	11021.2	10915.3	10716.4	10501.4	10235.1	9567.7
25°	10732.4	10841.5	11107.8	11303.5	11358.0	11316.3	11210.5	10969.8	10722.8	10466.1	9696.1
27.5°	11188.0	11319.5	11566.6	11730.2	11714.2	11682.1	11573.0	11265.0	11018.0	10783.7	9914.2
30°	11755.9	11852.2	12108.8	12147.3	12089.6	12083.2	11929.2	11621.1	11390.1	11210.5	10225.5
32.5°	12291.7	12378.3	12583.7	12599.7	12497.1	12509.9	12365.5	12083.2	11951.6	11887.5	10748.4
35°	12859.6	12904.5	13081.0	13061.8	12994.4	12984.8	12927.0	12657.5	12699.2	12814.7	11489.6
37.5°	13334.5	13424.3	13523.8	13539.8	13536.6	13568.7	13607.2	13478.9	13719.5	14082.1	12461.8
40°	13770.8	13847.8	13995.4	14046.8	14171.9	14236.1	14367.6	14370.8	14925.9	15522.7	13658.5
42.5°	14066.0	14197.6	14473.5	14566.5	14871.3	15063.9	15259.6	15468.1	16273.5	17040.3	15070.3
45°	14322.7	14496.0	14954.8	15243.5	15657.4	15891.6	16305.5	16741.9	17900.2	18904.4	16504.5
47.5°	14710.9	14864.9	15391.1	15901.3	16526.9	16796.4	17415.7	18067.0	19581.4	20681.9	17877.7
50°	15249.9	15343.0	15878.8	16709.8	17508.7	17855.2	18673.4	19613.5	21378.2	22437.0	19084.1
52.5°	15939.8	15978.3	16405.0	17511.9	18564.3	18994.3	20078.7	21176.0	22950.3	23961.0	20040.2
55°	16754.7	16690.6	17024.2	18362.2	19770.7	20332.2	21496.9	22757.8	24718.2	25193.1	20736.5
57.5°	17560.1	17460.6	17726.9	19395.3	21259.4	21936.4	23293.6	24387.7	26296.8	26344.9	21224.2
60°	18413.5	18339.7	18657.4	20608.1	23085.1	23887.2	25141.7	26078.6	27824.0	27147.0	21301.2
62.5°	19289.4	19170.7	19623.1	21971.7	25141.7	25870.0	27086.1	27875.3	29322.4	27445.4	20560.0
65°	20139.7	20085.1	20784.6	23592.0	27483.9	28311.7	29492.4	30028.2	30522.4	26996.2	18721.5
67.5°	21044.5	21153.6	22270.1	25754.5	30538.4	31577.9	32851.7	32348.0	30865.7	24869.0	15766.5
70°	22424.1	22494.7	24220.9	28587.6	34475.2	35729.7	36345.8	33172.6	29210.1	20829.5	11852.2
72.5°	23017.7	23328.9	25963.1	31561.9	38947.8	39714.7	37520.1	31334.1	24333.2	14149.4	6227.7
73°	22886.1	23258.3	26043.3	32014.3	39297.6	40102.9	37269.8	30387.6	22619.8	12185.8	5338.9
75°	21246.6	21705.4	25000.5	31635.7	38617.4	38136.1	33246.4	25898.9	15285.2	5541.1	2432.0
77.5°	16764.4	16895.9	19809.2	25546.0	30410.1	29518.1	24881.8	16186.8	6243.7	2059.8	1379.7
80°	8409.4	8893.9	11165.5	14633.9	20335.4	20043.4	15705.6	7655.5	2602.1	1209.6	914.4
82.5°	4045.9	4389.2	5438.4	7135.7	11236.1	10969.8	7777.4	4183.9	1652.4	705.9	539.0
85°	2605.3	2862.0	3462.0	3404.2	4620.2	4411.7	3494.0	3166.8	978.6	369.0	375.4
87.5°	1719.7	1883.4	2258.8	1806.4	1681.2	1520.8	1543.3	1783.9	192.5	141.2	51.3
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°	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6	9981.6
2.5°	9872.5	9830.8	9692.8	9558.1	9429.7	9307.8	9227.6	9121.7	9051.1	9070.4	9099.3
5°	9625.5	9532.4	9288.6	9051.1	8826.6	8560.2	8345.3	8172.0	8040.5	7992.3	7982.7
7.5°	9365.6	9208.4	8858.6	8451.2	8069.3	7738.9	7357.1	7167.8	6946.4	6869.4	6843.7
10°	9208.4	8996.6	8505.7	7937.8	7363.5	6814.8	6400.9	6064.0	5759.2	5701.5	5672.6
12.5°	9163.4	8884.3	8223.4	7491.8	6728.2	6054.4	5441.6	4998.8	4703.6	4636.3	4536.8
15°	9137.8	8791.3	7960.3	7042.6	6073.7	5252.3	4607.4	4090.8	3821.3	3641.6	3644.8
17.5°	9115.3	8685.4	7665.1	6551.7	5509.0	4562.5	3850.2	3385.0	3137.9	3041.6	3032.0
20°	9083.2	8560.2	7325.0	6035.2	4864.1	3933.6	3288.7	2942.2	2775.3	2695.1	2691.9
22.5°	9070.4	8438.3	6991.3	5509.0	4293.0	3449.1	2916.5	2672.7	2566.8	2512.2	2512.2
25°	9102.5	8351.7	6641.6	5008.5	3786.0	3035.2	2659.8	2493.0	2432.0	2403.2	2393.5
27.5°	9201.9	8313.2	6295.1	4507.9	3320.8	2752.9	2486.6	2371.1	2326.2	2303.7	2306.9
30°	9391.2	8310.0	5955.0	4013.8	2974.3	2537.9	2348.6	2268.4	2233.1	2220.3	2217.1
32.5°	9696.1	8380.6	5621.3	3606.3	2682.3	2358.2	2220.3	2162.5	2146.5	2136.9	2133.6
35°	10212.6	8579.5	5290.8	3234.2	2457.7	2197.8	2098.4	2069.5	2047.0	2056.6	2059.8
37.5°	10908.9	8922.8	4976.4	2942.2	2287.7	2079.1	1995.7	1970.0	1957.2	1966.8	1976.4
40°	11842.5	9416.9	4713.3	2708.0	2165.7	1979.6	1905.8	1883.4	1870.5	1886.6	1889.8
42.5°	12872.5	9988.0	4495.1	2525.1	2066.3	1896.2	1825.6	1800.0	1790.3	1800.0	1803.2
45°	13931.3	10652.2	4382.8	2393.5	1982.8	1835.3	1761.5	1732.6	1710.1	1703.7	1713.3
47.5°	14974.0	11229.7	4379.6	2313.3	1915.5	1780.7	1700.5	1668.4	1639.5	1623.5	1620.3
50°	15824.3	11688.5	4456.6	2278.0	1857.7	1719.7	1639.5	1607.5	1569.0	1536.9	1543.3
52.5°	16466.0	11986.9	4491.9	2262.0	1825.6	1655.6	1575.4	1546.5	1501.6	1459.9	1459.9
55°	16879.9	12057.5	4405.3	2245.9	1800.0	1588.2	1501.6	1475.9	1431.0	1389.3	1389.3
57.5°	17021.0	11839.3	4094.0	2207.4	1774.3	1530.4	1427.8	1405.3	1370.0	1328.3	1321.9
60°	16693.8	11101.4	3548.6	2091.9	1723.0	1469.5	1347.6	1337.9	1325.1	1289.8	1286.6
62.5°	15432.8	9535.6	2955.0	1941.1	1636.3	1405.3	1273.8	1289.8	1299.4	1280.2	1277.0
65°	13334.5	7742.1	2525.1	1732.6	1520.8	1315.5	1193.6	1235.3	1260.9	1260.9	1254.5
67.5°	10815.8	5945.3	2127.2	1552.9	1376.4	1193.6	1103.7	1135.8	1155.1	1148.6	1164.7
70°	7687.5	4026.7	1732.6	1347.6	1193.6	1055.6	988.2	988.2	975.4	969.0	969.0
72.5°	3728.3	2300.5	1405.3	1126.2	1017.1	901.6	847.0	824.6	798.9	795.7	779.7
73°	3115.4	2063.1	1341.1	1084.5	975.4	879.1	818.2	782.9	766.8	754.0	750.8
75°	1896.2	1565.7	1119.8	914.4	831.0	757.2	702.7	670.6	654.5	644.9	641.7
77.5°	1248.1	1167.9	869.5	699.5	635.3	590.4	567.9	535.8	526.2	513.4	513.4
80°	930.5	892.0	622.4	494.1	455.6	417.1	410.7	404.3	378.6	362.6	356.1
82.5°	600.0	635.3	423.5	330.5	288.8	256.7	259.9	269.5	243.8	221.4	215.0
85°	426.7	458.8	256.7	150.8	121.9	105.9	118.7	105.9	109.1	86.6	70.6
87.5°	70.6	121.9	44.9	19.3	9.6	6.4	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)