

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: P193236

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47174.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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: 25 FT



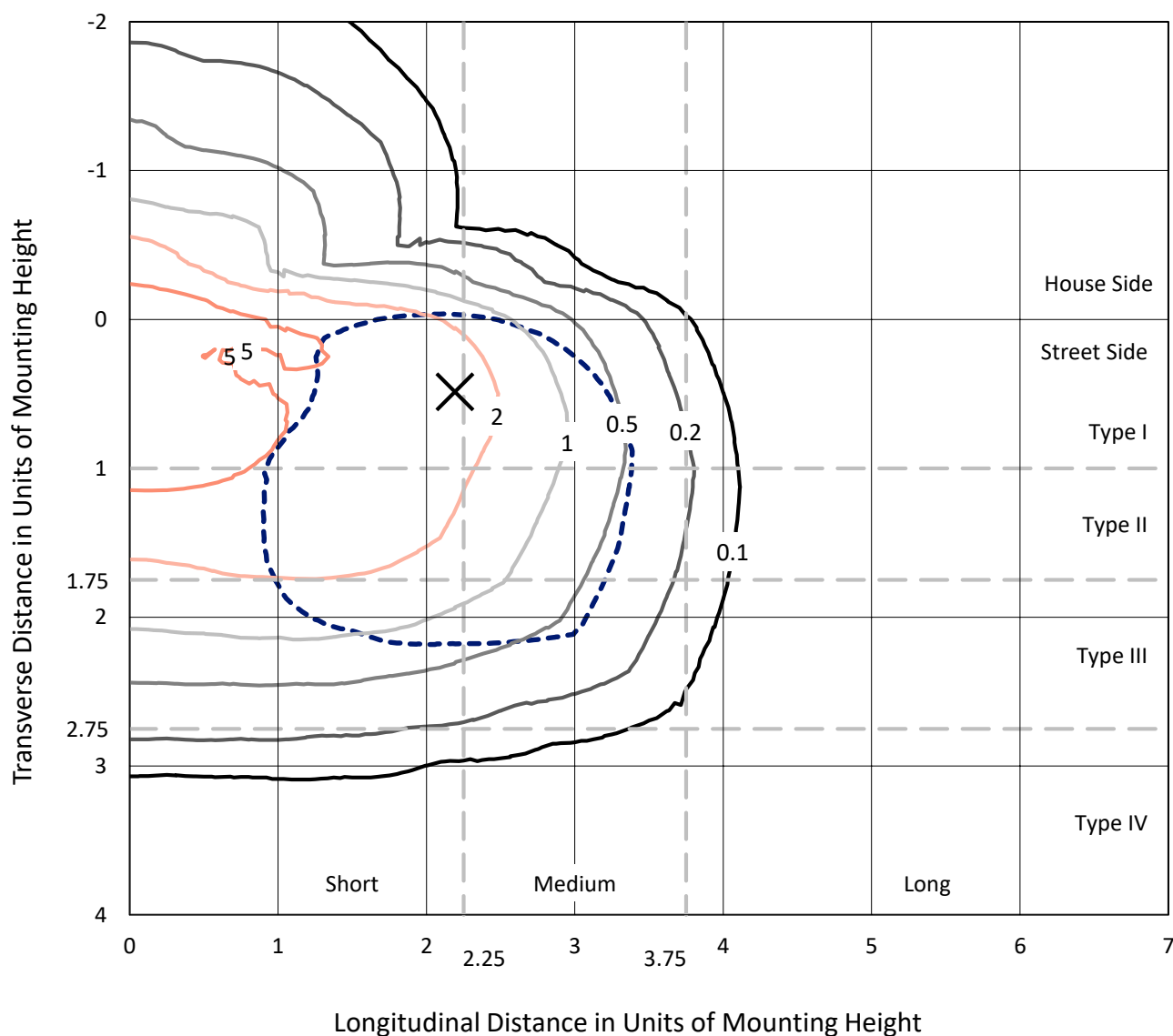
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

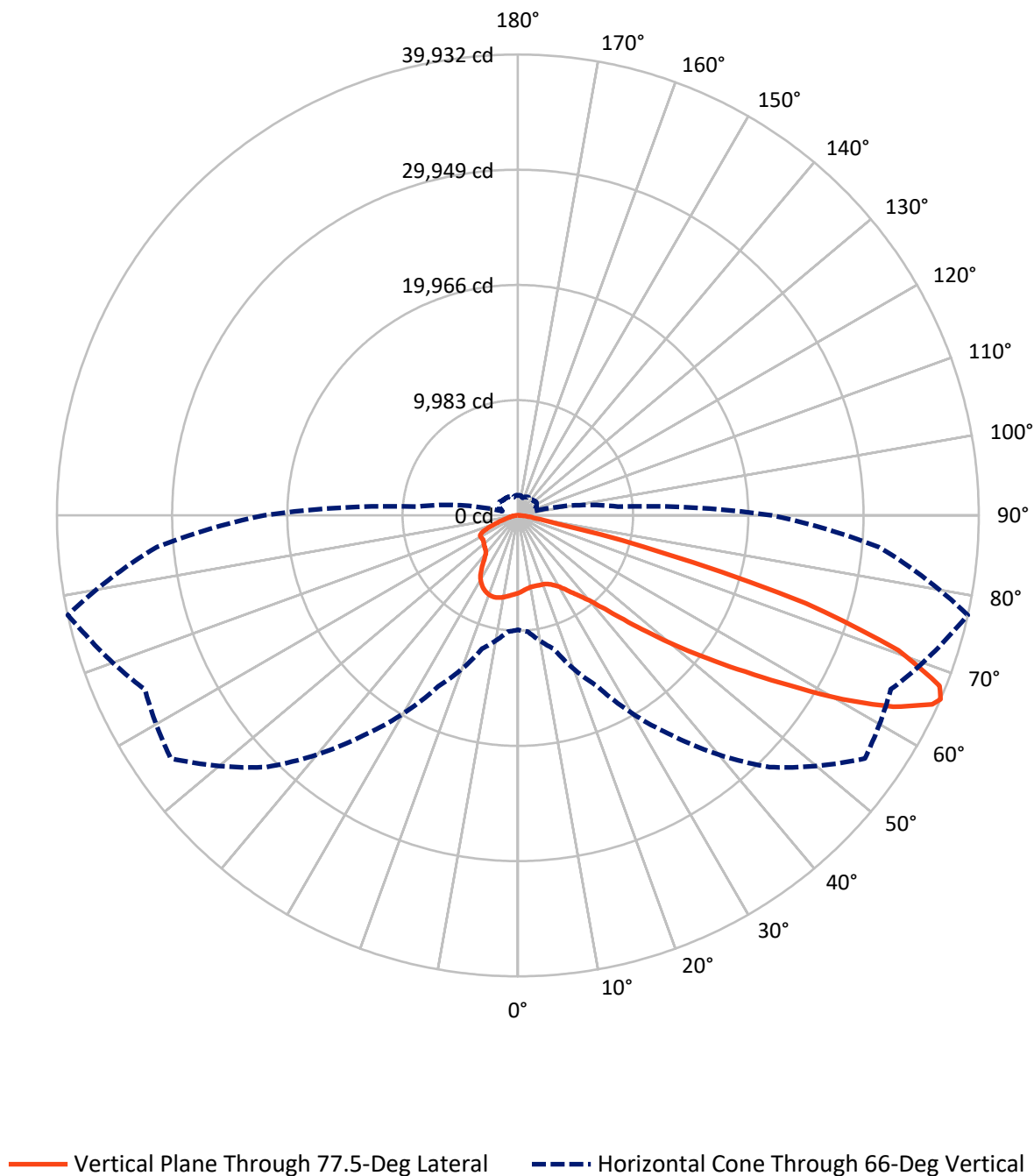


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8059.5	0.0	8059.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	39115.3	0.0	39115.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	47174.9	0.0	47174.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.6	1.3
10°-20°	1694.4	3.6
20°-30°	2891.8	6.1
30°-40°	4629.3	9.8
40°-50°	7151.8	15.2
50°-60°	10143.7	21.5
60°-70°	13569.5	28.8
70°-80°	5893.0	12.5
80°-90°	600.9	1.3
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°	47174.9	100.0
0°-180°	47174.9	100.0

Coefficient of Utilization



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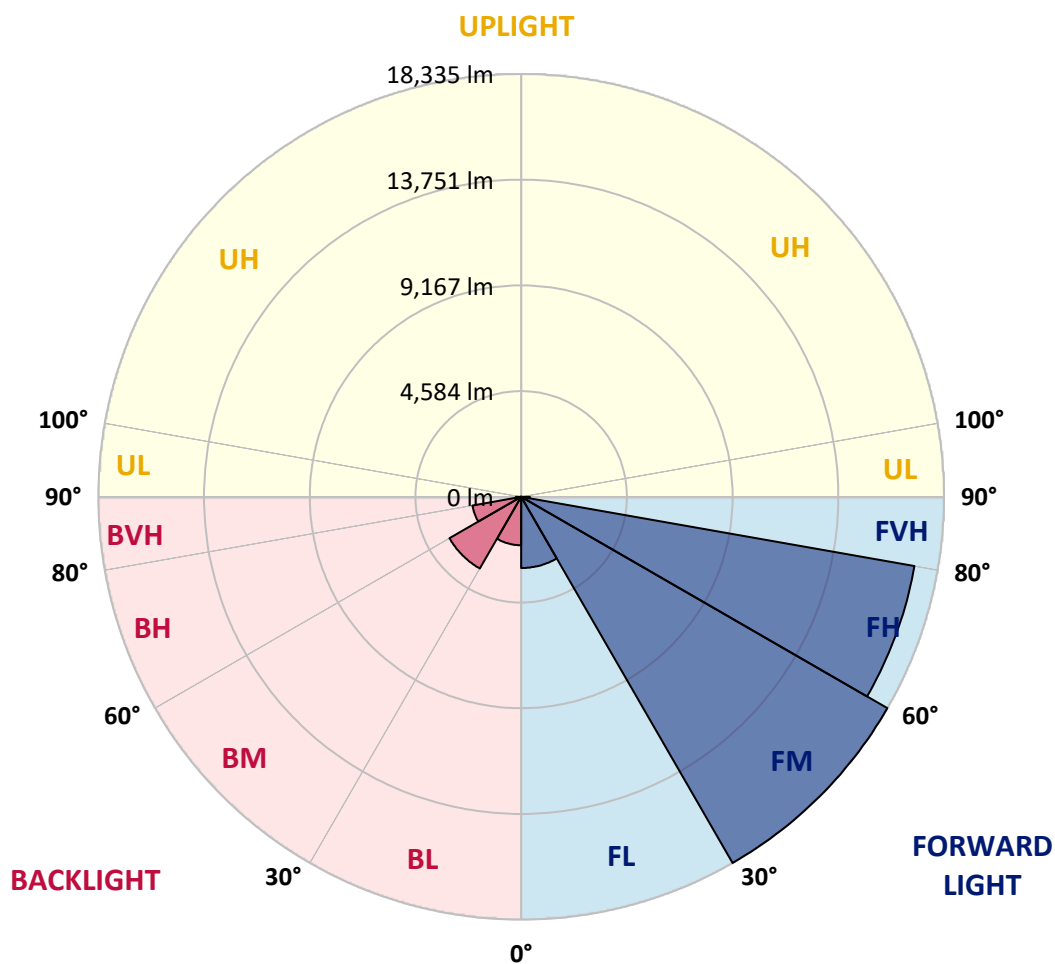
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3087.8	6.5			
FM	(30°-60°)	18334.6	38.9			
FH	(60°-80°)	17316.0	36.7			G5
FVH	(80°-90°)	376.9	0.8			G3/500
BL	(0°-30°)	2099.0	4.4	B3/2500		
BM	(30°-60°)	3590.1	7.6	B3/5000		
BH	(60°-80°)	2146.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	224.0	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6
2.5°	5947.0	5987.1	6020.5	6051.8	6114.1	6216.7	6334.9	6430.7	6568.8	6595.6	6669.1
5°	5400.9	5400.9	5427.6	5474.4	5559.1	5712.9	5873.4	6087.4	6388.3	6459.6	6655.7
7.5°	5135.6	5137.8	5153.4	5193.5	5267.1	5407.6	5583.5	5835.5	6243.4	6361.5	6695.9
10°	5233.6	5211.3	5177.9	5157.9	5169.0	5251.5	5418.7	5699.5	6154.2	6305.8	6785.1
12.5°	5782.0	5739.6	5623.8	5469.9	5322.8	5262.7	5360.7	5634.9	6116.4	6292.5	6903.2
15°	6678.0	6660.2	6444.0	6125.3	5768.7	5469.9	5403.1	5610.4	6120.8	6308.1	7043.6
17.5°	7801.4	7777.0	7491.7	7028.0	6446.3	5864.5	5552.4	5630.4	6136.4	6334.9	7179.5
20°	8936.0	8860.3	8552.6	7999.9	7253.1	6401.7	5799.8	5681.7	6156.4	6363.8	7322.2
22.5°	9783.1	9720.7	9444.3	8907.1	8046.6	7023.5	6131.9	5770.8	6221.1	6448.5	7498.4
25°	10527.5	10532.0	10257.8	9738.5	8849.1	7683.3	6559.9	6009.4	6386.1	6622.3	7739.1
27.5°	11448.0	11394.6	11138.3	10623.4	9642.6	8349.8	7077.0	6337.0	6631.3	6869.7	8055.5
30°	12549.2	12511.4	12214.8	11630.8	10523.1	9065.4	7667.7	6718.2	6947.8	7195.2	8470.3
32.5°	13844.2	13826.4	13518.8	12767.7	11539.5	9907.8	8360.9	7221.9	7420.4	7676.7	9065.4
35°	15364.5	15366.7	15003.4	14100.6	12651.7	10888.7	9147.8	7870.6	7995.4	8262.8	9774.2
37.5°	16300.6	16414.3	16278.3	15357.8	13911.1	11985.3	10168.6	8731.0	8650.7	8920.5	10534.2
40°	16501.2	16639.4	17069.7	16601.5	15319.9	13193.4	11073.7	9557.9	9457.6	9787.6	11512.7
42.5°	16220.4	16412.1	17321.5	17651.4	16815.5	14682.4	12290.7	10786.1	10659.0	11102.6	12729.8
45°	16053.3	16195.8	17248.0	18197.4	18112.8	16365.3	13839.9	12328.6	12281.8	12863.5	14134.0
47.5°	15763.5	15892.8	16904.7	18324.5	18875.1	17907.7	15701.0	14214.3	14305.7	15068.0	15718.9
50°	15919.5	15972.9	16521.3	18001.3	19095.8	19037.9	17780.7	16398.7	16710.7	17662.6	17513.1
52.5°	15897.2	16035.3	16476.8	17470.9	19124.7	19735.5	19829.1	18834.9	19492.5	20584.8	19503.7
55°	12852.3	13106.5	15953.0	17337.1	19227.3	20419.8	21652.5	21402.8	22628.6	23901.4	21750.6
57.5°	12272.9	12433.3	14011.4	17617.9	19771.1	21725.9	23680.9	24229.2	26279.8	27757.7	24487.7
60°	12159.1	12357.6	13991.4	17961.2	20874.5	23854.7	26687.7	27650.7	30722.2	32340.4	27661.8
62.5°	11804.7	12018.7	13859.9	17916.7	22441.6	26799.2	30537.2	31288.3	34935.0	36508.7	30316.5
65°	10681.3	10881.9	12787.7	17196.7	23498.1	29942.1	35093.3	34622.9	38260.6	39444.2	31640.6
66°	9912.3	10108.4	11942.9	16349.7	23252.9	30833.6	36707.1	35655.0	39005.1	39932.4	31382.0
67.5°	8505.9	8659.7	10302.4	14452.9	21948.9	31083.2	38064.5	36430.7	39083.1	39410.8	29904.2
70°	5374.1	5418.7	6695.9	9977.0	16614.9	26957.4	35998.2	34504.8	35860.1	34972.9	25069.5
72.5°	2331.5	2316.0	3214.2	5075.4	9406.3	18088.3	29119.6	28470.9	28129.9	26106.0	17548.9
75°	1297.2	1315.2	1669.5	2356.0	3822.8	8884.8	19049.1	18228.7	15391.3	13133.2	7957.5
77.5°	1040.9	1065.5	1384.2	1671.7	1716.4	3098.3	8913.7	7253.1	4366.5	3504.0	2211.2
80°	822.5	867.1	1208.1	1301.8	1156.8	1277.2	2879.8	2302.5	1727.5	1584.8	1145.7
82.5°	650.8	682.1	1036.5	985.2	809.2	860.4	1379.7	1344.1	1123.4	1023.1	662.0
85°	468.0	526.1	851.4	742.3	530.5	579.5	916.1	878.2	644.2	526.1	292.0
87.5°	191.6	249.6	601.8	492.6	296.4	269.8	456.9	430.2	305.4	222.9	144.9
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°	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6	6722.6
2.5°	6715.9	6769.4	6838.5	6880.9	6903.2	6918.9	6943.3	6941.1	6947.8	6950.0	6958.9
5°	6760.5	6849.7	6950.0	6976.7	6976.7	6952.2	6927.7	6887.6	6872.0	6867.5	6872.0
7.5°	6876.4	6974.6	7061.4	7030.3	6963.4	6865.3	6738.2	6626.8	6566.6	6546.6	6542.1
10°	7023.5	7141.7	7177.4	7059.2	6863.1	6626.8	6374.9	6192.2	6087.4	6058.4	6049.4
12.5°	7201.9	7313.4	7264.3	7014.7	6651.2	6270.2	5922.4	5630.4	5412.0	5342.9	5338.4
15°	7398.1	7485.0	7313.4	6876.4	6334.9	5773.0	5153.4	4649.6	4377.7	4290.8	4284.2
17.5°	7580.9	7625.4	7284.4	6635.8	5869.0	4959.5	4137.0	3749.1	3655.6	3677.8	3682.2
20°	7736.8	7736.8	7186.3	6290.2	5135.6	3887.3	3368.0	3361.4	3428.2	3495.1	3508.5
22.5°	7908.5	7805.9	7014.7	5802.1	4096.9	3180.7	3105.0	3167.4	3243.2	3316.8	3327.9
25°	8120.2	7861.6	6776.2	5062.1	3220.9	2888.9	2917.8	2969.0	3007.0	3053.7	3060.5
27.5°	8356.4	7933.0	6461.8	4043.3	2795.2	2706.1	2728.3	2746.1	2741.7	2759.5	2763.9
30°	8639.5	8015.5	6031.6	3160.8	2619.1	2550.0	2509.8	2494.3	2494.3	2523.3	2534.4
32.5°	9018.5	8138.0	5414.3	2708.2	2534.4	2438.5	2309.2	2251.3	2273.5	2371.7	2394.0
35°	9435.3	8269.7	4578.4	2554.4	2516.6	2387.2	2186.6	2079.6	2081.8	2173.2	2202.2
37.5°	9890.0	8436.8	3662.3	2525.4	2556.6	2389.5	2122.1	1974.9	1914.7	1914.7	1925.8
40°	10471.9	8608.3	2964.5	2545.5	2641.4	2416.3	2088.6	1892.4	1723.0	1727.5	1736.3
42.5°	11229.6	8755.5	2590.1	2588.0	2743.9	2451.9	2086.3	1783.2	1636.0	1736.3	1827.8
45°	12072.3	8829.0	2425.1	2625.7	2826.3	2474.1	2050.7	1765.4	1647.2	1945.9	2119.7
47.5°	13041.8	8786.7	2333.8	2639.1	2846.4	2474.1	2010.6	1807.7	1725.2	2253.5	2456.3
50°	14105.1	8664.1	2244.6	2612.4	2839.7	2469.7	2048.4	1850.1	1754.2	2307.0	2447.4
52.5°	15355.6	8561.5	2151.0	2554.4	2792.8	2445.2	2093.0	1832.3	1662.8	2097.4	2195.6
55°	16782.1	8590.5	2046.2	2472.0	2719.4	2398.3	2077.4	1760.9	1567.0	1847.8	1908.0
57.5°	18605.4	8936.0	1921.5	2367.2	2619.1	2320.3	2021.8	1727.5	1538.1	1676.2	1711.9
60°	20640.5	9537.9	1765.4	2262.4	2494.3	2195.6	1979.3	1743.1	1551.4	1662.8	1680.6
62.5°	22133.8	9887.9	1631.6	2108.6	2324.8	2057.4	1925.8	1763.1	1587.0	1709.7	1705.2
65°	22539.5	9312.7	1464.4	1883.5	2095.3	1912.5	1858.9	1785.4	1602.7	1747.5	1727.5
66°	21971.2	8693.1	1390.9	1778.7	1979.3	1841.1	1825.5	1783.2	1596.0	1752.0	1718.5
67.5°	20591.4	7422.5	1263.8	1624.9	1794.4	1734.2	1772.0	1763.1	1578.1	1747.5	1700.7
70°	16793.2	5064.2	1081.0	1352.9	1493.5	1526.9	1669.5	1691.8	1520.2	1669.5	1567.0
72.5°	11733.5	3084.9	956.2	1049.9	1208.1	1301.8	1529.1	1593.8	1442.1	1457.7	1359.7
75°	5670.5	1638.4	867.1	813.6	938.4	1087.7	1359.7	1460.0	1319.6	1219.3	1183.6
77.5°	1767.6	1000.9	735.6	655.3	735.6	878.2	1136.8	1279.4	1174.6	1020.9	1007.5
80°	949.6	735.6	566.2	526.1	581.8	688.8	893.8	1067.7	1009.8	916.1	818.1
82.5°	626.4	477.0	419.0	407.9	443.6	526.1	664.2	884.9	884.9	784.6	570.7
85°	323.2	292.0	287.6	287.6	309.9	349.9	452.5	682.1	726.7	414.6	343.3
87.5°	160.5	167.1	156.0	162.7	173.8	171.6	216.3	343.3	410.2	251.9	209.6
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)