

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: P192386

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51967 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

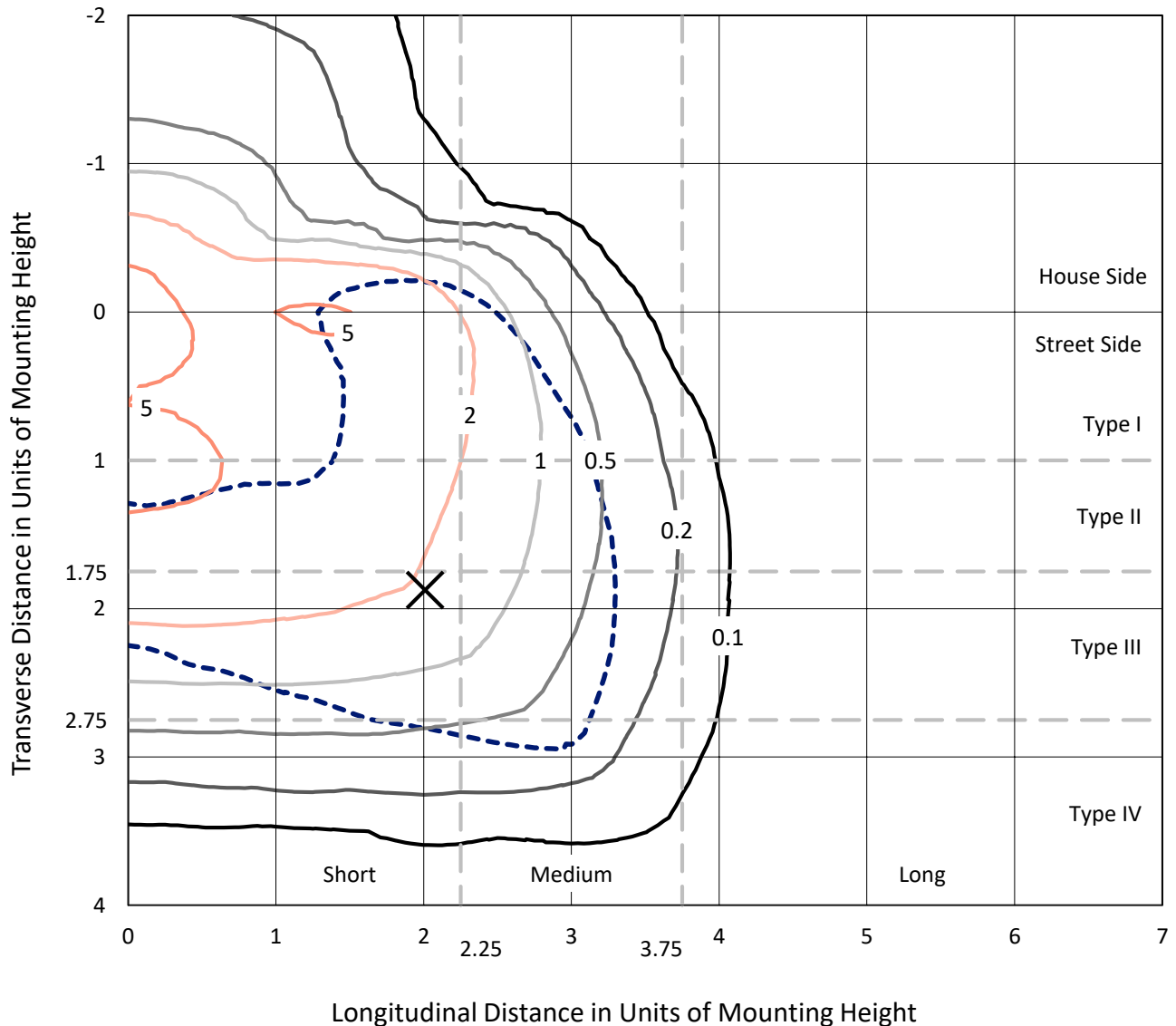
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

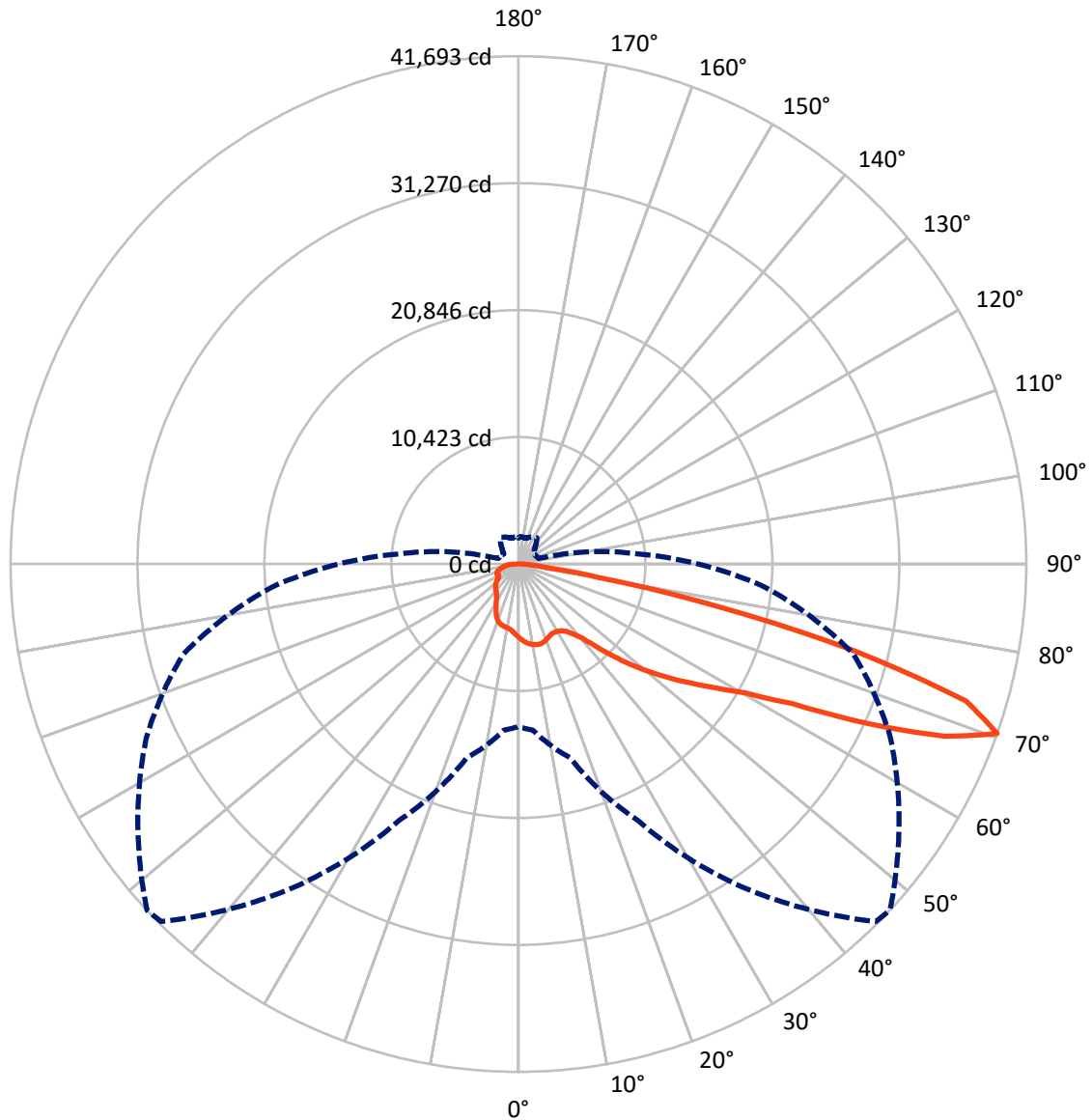
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10841.3	0.0	10841.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	41125.7	0.0	41125.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	51967.0	0.0	51967.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	1.1
10°-20°	1695.0	3.3
20°-30°	2503.0	4.8
30°-40°	3638.1	7.0
40°-50°	6547.3	12.6
50°-60°	11342.6	21.8
60°-70°	16189.1	31.2
70°-80°	8310.6	16.0
80°-90°	1163.5	2.2
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°	51967.0	100.0
0°-180°	51967.0	100.0



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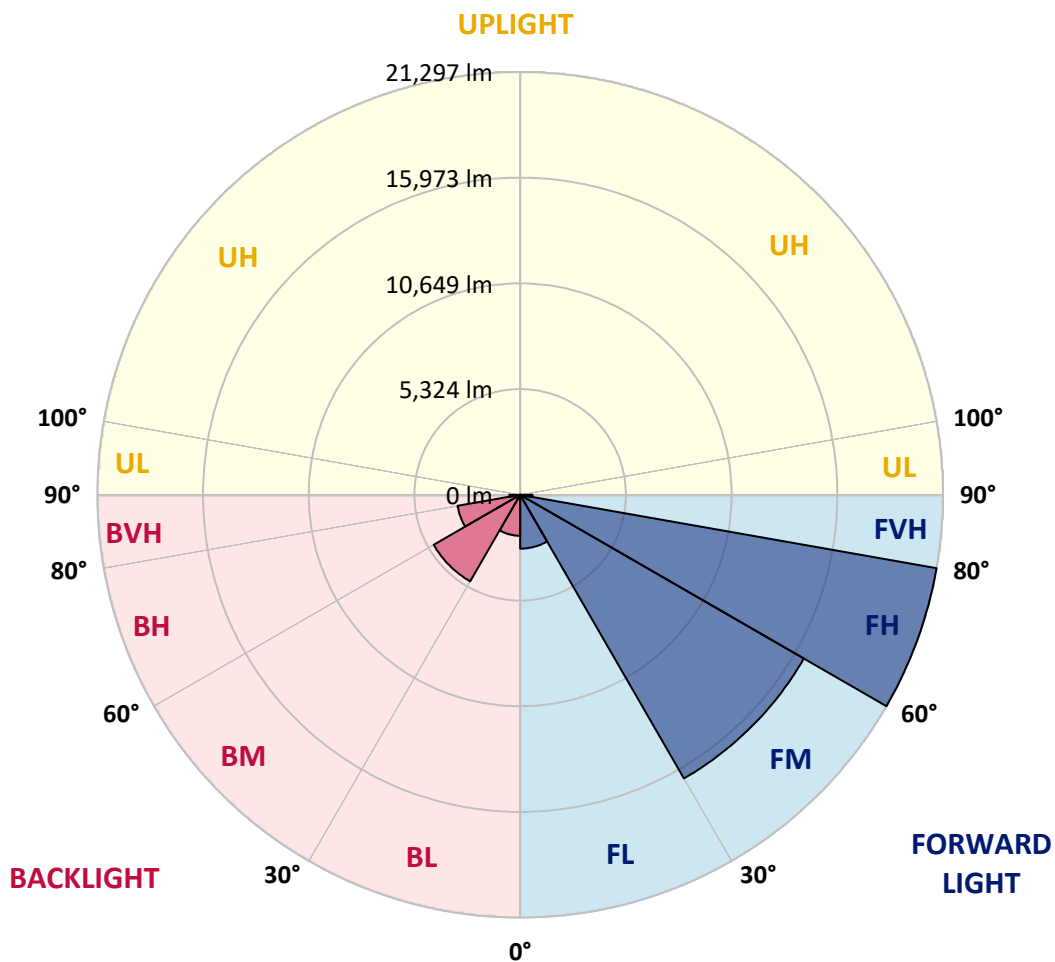
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2711.5	5.2			
FM	(30°-60°)	16495.8	31.7			
FH	(60°-80°)	21297.5	41.0			G5
FVH	(80°-90°)	620.9	1.2			G4/750
BL	(0°-30°)	2064.2	4.0	B3/2500		
BM	(30°-60°)	5032.2	9.7	B4/8500		
BH	(60°-80°)	3202.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	542.6	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8
2.5°	6383.7	6371.1	6366.0	6355.9	6343.3	6280.1	6267.4	6221.9	6158.7	6093.0	6024.7
5°	6803.4	6800.9	6773.1	6722.5	6641.6	6502.6	6469.7	6358.5	6209.3	6065.2	5921.1
7.5°	7172.5	7149.8	7096.7	6995.6	6854.0	6664.4	6618.9	6464.6	6259.9	6062.7	5868.0
10°	7443.1	7430.4	7314.1	7175.1	6990.5	6780.7	6727.6	6555.7	6330.6	6080.4	5837.6
12.5°	7597.3	7572.0	7438.0	7271.1	7051.2	6846.4	6793.3	6618.9	6366.0	6080.4	5794.7
15°	7587.2	7569.5	7435.5	7253.4	7031.0	6851.5	6803.4	6629.0	6358.5	6055.1	5739.0
17.5°	7384.9	7392.5	7278.7	7099.2	6917.2	6780.7	6737.7	6575.9	6307.9	6004.5	5673.3
20°	7031.0	7066.4	6990.5	6831.2	6730.1	6636.6	6608.8	6472.2	6229.5	5931.2	5602.5
22.5°	6677.0	6709.9	6679.5	6545.5	6530.4	6474.8	6459.6	6361.0	6161.3	5885.7	5559.5
25°	6416.6	6446.9	6441.9	6325.6	6371.1	6368.6	6355.9	6307.9	6146.1	5885.7	5567.1
27.5°	6345.8	6355.9	6345.8	6239.6	6302.8	6353.4	6343.3	6335.7	6191.6	5959.0	5663.2
30°	6588.5	6573.4	6495.0	6280.1	6338.2	6409.0	6398.9	6404.0	6328.1	6151.1	5878.1
32.5°	7556.8	7488.6	7240.8	6636.6	6482.3	6520.3	6525.3	6608.8	6621.4	6446.9	6211.8
35°	9005.5	8929.7	8608.6	7592.2	6929.8	6798.4	6798.4	6924.8	7000.6	6871.7	6730.1
37.5°	10540.1	10456.7	10284.8	8917.0	7870.3	7281.3	7268.6	7357.1	7465.8	7496.2	7531.5
40°	12284.6	12196.1	12244.1	10403.6	9182.5	8118.1	7938.6	7875.4	8168.7	8363.3	8646.5
42.5°	14193.4	14152.9	14170.6	12059.6	10676.6	9369.6	9114.2	8788.1	9142.0	9488.4	10082.5
45°	15960.6	15996.0	15978.3	13831.9	12340.2	10896.6	10626.1	9994.0	10340.4	10934.5	11902.8
47.5°	17507.9	17361.2	17588.8	15768.5	14203.5	12605.7	12271.9	11425.0	11776.4	12509.6	14147.9
50°	19386.3	19366.1	19032.4	18352.3	16456.1	14322.3	13884.9	12904.0	13450.1	14469.0	16977.0
52.5°	21360.9	20994.3	20688.4	20362.2	18845.3	16082.0	15546.0	14378.0	15417.0	16698.9	20425.4
55°	21765.4	21601.1	21980.3	22528.9	21148.5	17909.9	17285.4	16226.1	17631.8	19247.3	24402.3
57.5°	22630.0	22627.5	23411.3	24389.7	23520.0	19849.0	19219.5	18458.5	20122.1	22167.4	28624.4
60°	23214.1	23378.4	24834.6	26733.3	25848.5	22089.0	21510.0	21034.7	22953.7	25431.3	32558.3
62.5°	23520.0	23742.5	25729.6	27683.9	29140.2	25818.1	25239.2	24554.0	26700.5	29011.3	34859.0
65°	22248.3	22685.7	25590.6	28505.6	32022.4	31863.1	31602.7	30399.2	31385.2	31840.3	34027.2
67.5°	18729.0	19176.5	22559.3	27739.6	34080.3	37693.1	37748.8	35693.3	34267.4	32083.0	28609.3
70°	13343.9	13695.3	16494.1	23257.0	32512.8	41503.2	41692.8	38133.0	33693.5	28452.5	19988.1
72.5°	6335.7	6550.6	9200.2	15136.4	25800.4	38026.9	38393.5	35018.3	28649.7	21065.1	10904.2
75°	2328.5	2394.2	3109.7	6439.4	14964.5	28042.9	28475.3	25102.6	18991.9	10487.0	4153.9
77.5°	1395.6	1438.6	1744.5	2717.8	5885.7	16028.9	16668.5	13652.4	8300.1	3903.6	2042.8
80°	975.9	1006.2	1251.5	1691.4	2781.0	6108.2	6677.0	5572.2	3306.9	2470.1	1486.6
82.5°	659.9	675.0	879.8	1142.8	1848.1	2181.8	2353.8	2477.6	2229.9	1838.0	943.0
85°	432.3	447.5	596.7	753.4	1175.6	1127.6	1152.9	1458.8	1628.2	1248.9	523.3
87.5°	247.8	257.9	359.0	402.0	576.4	477.8	482.9	768.6	1041.6	841.9	318.6
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°	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8	6029.8
2.5°	6007.0	5974.2	5900.9	5855.3	5812.4	5802.3	5784.6	5782.0	5779.5	5779.5	5771.9
5°	5873.0	5817.4	5703.7	5640.4	5587.4	5582.3	5579.8	5592.4	5597.5	5602.5	5594.9
7.5°	5787.1	5711.2	5569.7	5478.6	5415.4	5400.3	5425.5	5483.7	5521.6	5536.8	5529.2
10°	5734.0	5640.4	5476.1	5377.5	5324.4	5316.8	5349.7	5418.0	5496.3	5526.7	5524.1
12.5°	5673.3	5567.1	5392.7	5289.0	5258.7	5273.9	5316.8	5380.0	5460.9	5509.0	5511.5
15°	5612.6	5488.8	5309.2	5218.2	5205.6	5225.8	5266.3	5314.3	5377.5	5425.5	5430.6
17.5°	5539.3	5410.4	5230.9	5137.3	5127.2	5137.3	5139.9	5165.1	5205.6	5251.1	5263.7
20°	5460.9	5329.5	5142.4	5048.8	5003.3	4962.9	4917.4	4922.4	4935.1	4980.6	4990.7
22.5°	5405.3	5273.9	5074.1	4945.2	4823.8	4702.5	4611.5	4598.8	4603.9	4641.8	4654.4
25°	5410.4	5271.3	5056.4	4833.9	4568.5	4373.8	4252.5	4232.2	4229.7	4257.5	4275.2
27.5°	5509.0	5369.9	5122.2	4720.2	4290.4	4002.2	3873.2	3858.1	3837.8	3845.4	3865.6
30°	5728.9	5600.0	5281.4	4603.9	3989.5	3638.1	3504.1	3488.9	3461.1	3448.5	3463.7
32.5°	6087.9	5981.8	5514.0	4492.6	3688.7	3327.1	3190.6	3157.7	3140.0	3124.9	3137.5
35°	6684.6	6639.1	5825.0	4371.3	3423.2	3086.9	2963.1	2912.5	2887.2	2915.0	2935.3
37.5°	7620.0	7645.3	6232.0	4181.7	3218.4	2927.7	2824.0	2765.9	2727.9	2750.7	2773.5
40°	8944.8	8962.5	6682.1	3913.7	3041.4	2834.1	2722.9	2669.8	2616.7	2576.2	2573.7
42.5°	10684.2	10504.7	7124.5	3622.9	2836.7	2776.0	2652.1	2586.4	2505.5	2394.2	2371.5
45°	12747.3	12117.7	7460.8	3289.2	2606.6	2705.2	2573.7	2482.7	2356.3	2234.9	2222.3
47.5°	15123.8	13849.6	7625.1	2942.8	2391.7	2601.5	2477.6	2333.5	2174.3	2113.6	2106.0
50°	18026.2	15905.0	7703.5	2606.6	2204.6	2465.0	2338.6	2169.2	2035.2	2022.6	2015.0
52.5°	21330.5	18377.6	7728.7	2331.0	2050.4	2288.0	2224.8	2060.5	1954.3	1964.4	1964.4
55°	24789.1	20931.1	7384.9	2131.3	1908.8	2106.0	2149.0	2017.5	1929.0	1969.5	1984.6
57.5°	27964.6	23193.8	6302.8	1977.1	1774.8	1967.0	2121.2	2058.0	1997.3	2161.6	2171.7
60°	30401.8	24531.3	4707.5	1838.0	1676.2	1918.9	2194.5	2212.2	2227.4	2619.2	2672.3
62.5°	30912.5	24086.3	3236.1	1729.3	1630.7	1959.4	2328.5	2331.0	2313.3	2586.4	2619.2
65°	28568.8	21272.4	2353.8	1668.6	1592.8	2032.7	2442.3	2389.2	2272.9	2480.2	2419.5
67.5°	22688.2	16026.3	1959.4	1623.1	1537.2	2027.6	2563.6	2442.3	2250.1	2429.6	2331.0
70°	14726.8	9690.6	1744.5	1585.2	1471.4	1931.6	2634.4	2437.2	2184.4	2260.2	2143.9
72.5°	7185.2	4333.4	1600.4	1529.6	1403.2	1797.6	2631.9	2391.7	2116.1	2111.1	2047.9
75°	2811.4	1984.6	1468.9	1446.1	1286.9	1645.9	2561.1	2326.0	2035.2	1954.3	1931.6
77.5°	1645.9	1415.8	1302.0	1322.3	1147.8	1494.2	2457.4	2212.2	1924.0	1827.9	1802.6
80°	1198.4	1059.3	1109.9	1142.8	980.9	1342.5	2318.4	2073.1	1800.1	1848.1	1812.7
82.5°	768.6	682.6	900.0	932.9	816.6	1188.3	2166.7	1926.5	1625.6	1476.5	1441.1
85°	391.9	432.3	670.0	710.4	629.5	975.9	1982.1	1731.8	1428.4	1228.7	1248.9
87.5°	220.0	295.8	427.3	477.8	445.0	750.9	1607.9	1428.4	1165.5	948.1	834.3
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)