

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: P191976

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47708 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

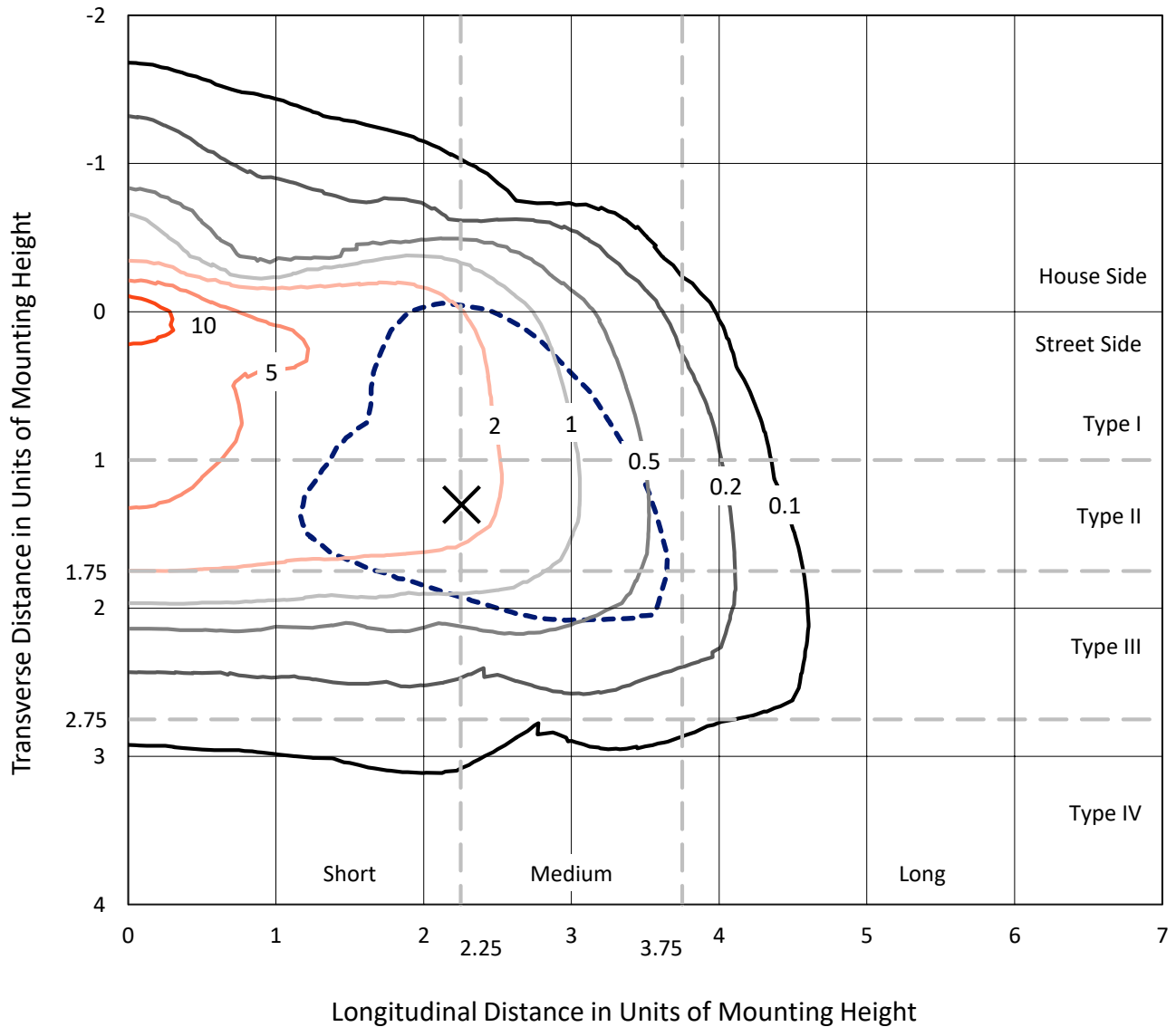
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

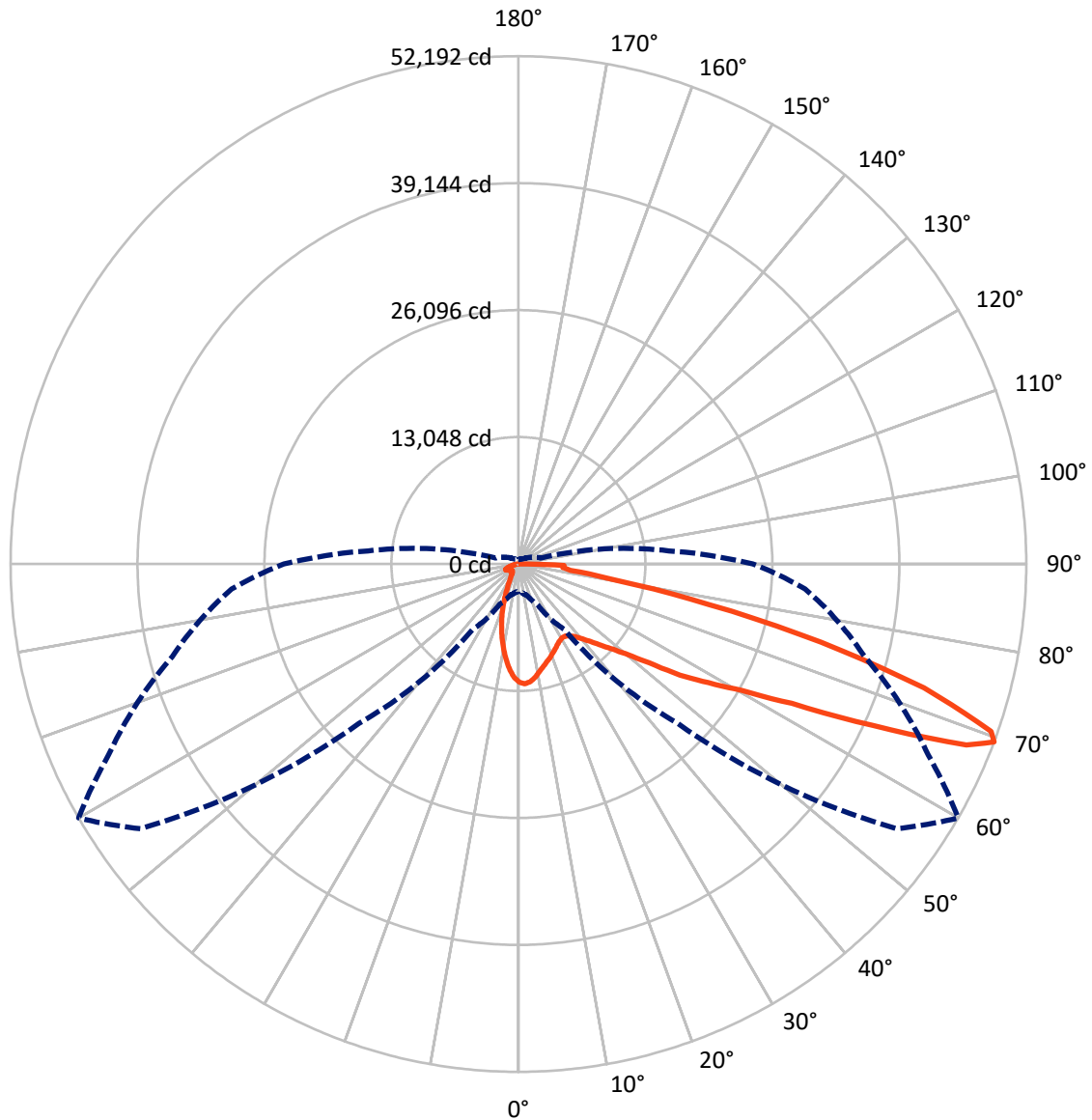
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6787.3	0.0	6787.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	40920.7	0.0	40920.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	47708.0	0.0	47708.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.9	2.2
10°-20°	2190.0	4.6
20°-30°	2790.5	5.8
30°-40°	3836.2	8.0
40°-50°	6224.5	13.0
50°-60°	9982.6	20.9
60°-70°	13286.0	27.8
70°-80°	7173.4	15.0
80°-90°	1196.9	2.5
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°	47708.0	100.0
0°-180°	47708.0	100.0



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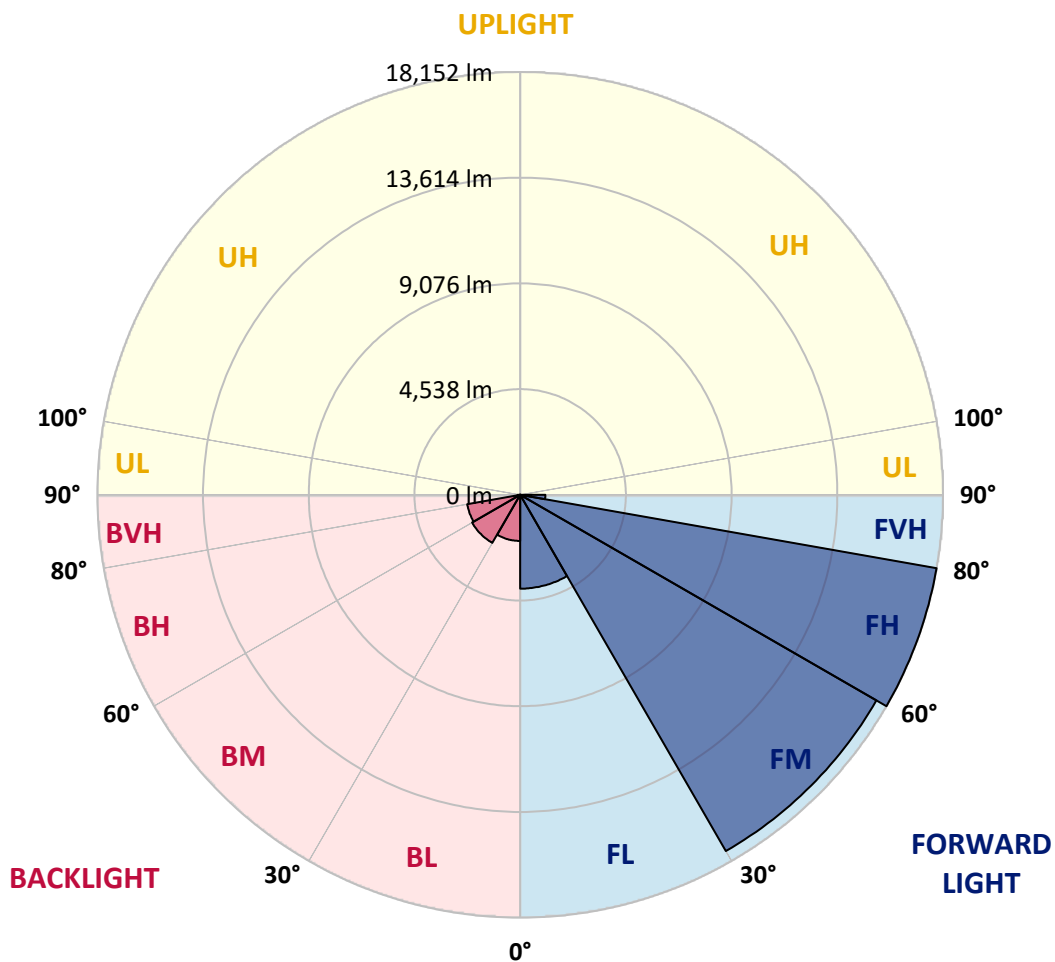
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4028.3	8.4			
FM	(30°-60°)	17658.7	37.0			
FH	(60°-80°)	18152.0	38.0			G5
FVH	(80°-90°)	1081.7	2.3			G5
BL	(0°-30°)	1980.1	4.2	B3/2500		
BM	(30°-60°)	2384.5	5.0	B2/2500		
BH	(60°-80°)	2307.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	115.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7
2.5°	12405.6	12433.3	12421.8	12414.8	12435.6	12403.3	12336.5	12315.7	12283.5	12207.4	12078.4
5°	11940.1	12023.1	12018.4	12080.7	12184.4	12212.0	12182.1	12186.7	12126.8	12032.3	11817.9
7.5°	11135.8	11170.4	11188.8	11324.8	11513.7	11665.8	11794.9	11836.4	11808.7	11728.1	11451.5
10°	10306.1	10333.8	10377.6	10536.6	10776.3	10986.0	11230.3	11370.9	11430.8	11416.9	11108.1
12.5°	9594.0	9621.7	9679.3	9859.0	10144.8	10402.9	10757.8	10933.0	11075.9	11161.1	10829.3
15°	8955.6	9015.6	9070.9	9278.3	9598.6	9937.4	10338.4	10559.6	10780.9	10972.2	10582.7
17.5°	8457.9	8517.8	8550.0	8739.0	9080.1	9494.9	9965.1	10225.5	10502.0	10815.5	10338.4
20°	8169.8	8197.4	8183.6	8289.6	8596.1	9036.3	9594.0	9895.9	10230.1	10668.0	10094.1
22.5°	8089.1	8091.4	8040.7	8029.2	8227.4	8598.4	9197.6	9564.1	9974.3	10571.2	9884.4
25°	8285.0	8278.1	8139.8	8026.9	8047.6	8264.3	8815.1	9241.4	9759.9	10550.4	9723.1
27.5°	8720.6	8741.3	8536.2	8324.2	8114.5	8107.6	8524.7	8974.1	9584.8	10644.9	9653.9
30°	9331.3	9365.9	9146.9	8877.3	8483.2	8158.3	8411.8	8815.1	9476.5	10840.8	9642.4
32.5°	9999.6	10036.5	9870.6	9587.1	9070.9	8471.7	8490.1	8828.9	9471.9	11115.0	9720.8
35°	10711.7	10753.2	10668.0	10428.3	9854.4	9050.1	8789.7	9052.4	9621.7	11534.5	9930.5
37.5°	11506.8	11571.4	11594.4	11366.2	10753.2	9813.0	9280.6	9476.5	9960.4	12117.5	10315.4
40°	12652.2	12742.1	12735.2	12407.9	11783.4	10843.1	10038.8	10089.5	10488.2	12896.5	10930.7
42.5°	14846.2	14864.6	14290.8	13578.7	12917.2	11926.3	10933.0	10891.5	11216.4	13882.9	11836.4
45°	17637.0	17561.0	16284.2	14908.4	14101.8	13170.7	12096.8	11894.0	12140.6	15085.9	12970.2
47.5°	19953.2	19778.0	18164.8	16265.8	15355.5	14523.5	13463.4	13108.5	13244.5	16450.2	14436.0
50°	20757.5	20626.1	19289.4	17395.1	16542.4	16173.6	15145.8	14643.4	14680.3	18077.2	16152.9
52.5°	20584.6	20566.2	19674.3	18139.4	17653.2	17906.7	17528.7	16848.9	16489.4	19884.0	18005.8
55°	20176.7	20215.9	19893.2	19006.0	18923.0	19579.8	20642.2	20139.8	19022.1	21707.0	19920.9
57.5°	18759.4	18860.8	19570.6	20096.0	20967.2	21944.3	23149.6	23006.7	21748.4	23677.4	22197.8
60°	15113.5	15348.6	17252.2	19884.0	23071.3	26127.2	26666.4	26334.6	24560.0	26122.6	25205.3
62.5°	10589.6	10833.9	13097.0	17215.3	22725.6	30851.6	32953.4	31522.2	28597.7	29724.6	29097.8
65°	5669.3	5786.8	7515.3	11944.7	19185.7	31826.4	42141.8	39963.9	34990.6	34165.6	32427.9
67.5°	3127.3	3191.9	3853.3	6031.1	12288.1	28026.1	47995.4	49640.9	42980.6	37122.4	31821.8
69°	2827.7	2887.7	3320.9	4567.7	8222.8	23172.7	47423.9	52192.1	46483.6	36829.7	29581.7
70°	2765.5	2820.8	3210.3	4210.5	6655.7	19100.5	45508.8	51539.9	47317.9	35781.1	27627.4
72.5°	2489.0	2548.9	2926.8	3781.8	5687.7	9522.6	36048.4	43577.5	42959.9	31024.4	20955.7
75°	2320.7	2376.0	3016.7	3703.5	5445.8	6026.5	23765.0	32116.8	31579.8	21702.3	11299.4
77.5°	993.3	988.7	1398.9	3134.2	5526.4	5835.2	12769.7	20063.8	18305.4	9276.0	3244.9
80°	663.7	652.2	663.7	921.8	5067.8	5867.5	6690.2	10184.0	7692.7	2364.5	1599.4
82.5°	571.5	562.3	583.1	562.3	1781.4	6697.1	5687.7	5415.8	3657.4	1343.6	792.8
85°	384.9	368.7	502.4	504.7	841.2	5950.5	6406.8	4574.6	2959.1	797.4	391.8
87.5°	184.4	179.8	292.7	357.2	493.2	2417.5	7188.0	4687.5	2984.4	407.9	186.7
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°	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7	12156.7
2.5°	12039.2	11944.7	11852.5	11741.9	11626.7	11497.6	11433.1	11368.6	11352.4	11334.0	11269.5
5°	11707.3	11573.7	11343.2	11089.7	10822.4	10561.9	10363.8	10239.3	10144.8	10096.4	10011.1
7.5°	11278.7	11082.8	10679.5	10241.6	9792.2	9382.0	9027.1	8803.5	8591.5	8492.4	8379.5
10°	10870.8	10578.1	9951.2	9305.9	8660.7	8040.7	7457.7	7045.1	6678.7	6473.6	6328.4
12.5°	10520.5	10119.5	9250.6	8377.2	7492.2	6609.6	5736.1	5049.4	4475.5	4173.6	4019.2
15°	10179.4	9695.4	8584.6	7476.1	6339.9	5139.2	3991.6	3212.6	2737.9	2548.9	2484.4
17.5°	9870.6	9250.6	7916.3	6568.1	5150.8	3698.9	2682.5	2253.9	2071.8	2009.6	1988.9
20°	9536.4	8801.2	7222.6	5618.6	3910.9	2585.8	2094.9	1905.9	1832.2	1813.7	1804.5
22.5°	9213.8	8358.8	6558.9	4602.3	2809.3	1995.8	1799.9	1721.5	1710.0	1726.1	1726.1
25°	8939.5	7962.4	5842.1	3539.9	2062.6	1680.0	1610.9	1592.5	1636.3	1696.2	1707.7
27.5°	8734.4	7637.4	5079.3	2613.4	1643.2	1461.1	1458.8	1488.8	1597.1	1712.3	1735.4
30°	8593.8	7328.6	4263.5	1885.2	1378.1	1286.0	1322.8	1387.4	1546.4	1710.0	1753.8
32.5°	8522.4	7100.4	3413.1	1458.8	1180.0	1129.3	1191.5	1269.8	1426.5	1578.6	1636.3
35°	8577.7	6932.2	2611.1	1216.8	1041.7	1002.5	1067.0	1143.1	1235.3	1299.8	1343.6
37.5°	8785.1	6865.4	1970.4	1090.1	947.2	910.3	961.0	1004.8	1041.7	1060.1	1080.9
40°	9232.2	6936.8	1578.6	1025.5	894.2	848.1	868.8	885.0	908.0	926.4	935.7
42.5°	9891.3	7151.1	1415.0	1000.2	866.5	799.7	795.1	802.0	832.0	866.5	873.4
45°	10813.1	7529.1	1403.5	1016.3	852.7	760.5	739.8	749.0	795.1	848.1	857.3
47.5°	11990.8	8105.3	1495.7	1064.7	864.2	739.8	705.2	716.7	774.3	845.8	857.3
50°	13417.3	8909.6	1650.1	1136.2	914.9	744.4	693.7	700.6	760.5	838.9	850.4
52.5°	15102.0	10050.3	1818.3	1205.3	967.9	774.3	702.9	686.8	742.1	811.2	825.0
55°	16975.6	11513.7	1991.2	1267.5	995.6	811.2	721.3	668.3	707.5	765.1	776.6
57.5°	19275.6	13560.2	2290.8	1327.4	1014.0	836.6	739.8	649.9	663.7	705.2	714.4
60°	22389.1	16454.8	2818.5	1426.5	1055.5	845.8	737.5	633.8	619.9	643.0	647.6
62.5°	26120.2	19598.3	3258.7	1551.0	1124.6	852.7	723.6	622.2	583.1	583.1	587.7
65°	28335.0	20439.4	3014.4	1654.7	1182.3	845.8	707.5	610.7	555.4	530.1	532.4
67.5°	26456.7	17975.8	2583.4	1675.4	1180.0	813.5	682.2	590.0	527.8	488.6	486.3
69°	24103.7	15509.9	2389.9	1620.1	1124.6	772.0	649.9	566.9	507.0	465.5	463.2
70°	22207.0	14005.0	2263.1	1560.2	1064.7	742.1	624.5	546.2	490.9	451.7	447.1
72.5°	16146.0	9176.9	1933.6	1341.3	878.0	622.2	539.3	479.4	437.9	414.8	410.2
75°	8068.4	4376.4	1569.4	1087.8	672.9	497.8	442.5	401.0	380.3	375.6	373.3
77.5°	2650.3	2005.0	1122.3	811.2	500.1	389.5	357.2	327.3	322.6	336.5	331.9
80°	1456.5	1166.1	712.1	537.0	341.1	285.8	281.2	265.0	271.9	295.0	290.4
82.5°	742.1	606.1	440.2	322.6	230.5	205.1	223.5	214.3	223.5	244.3	242.0
85°	366.4	331.9	278.9	195.9	152.1	131.4	159.0	165.9	170.5	186.7	186.7
87.5°	212.0	195.9	147.5	92.2	76.1	69.1	92.2	89.9	106.0	115.2	112.9
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)