

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: P192796

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38215.6 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-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



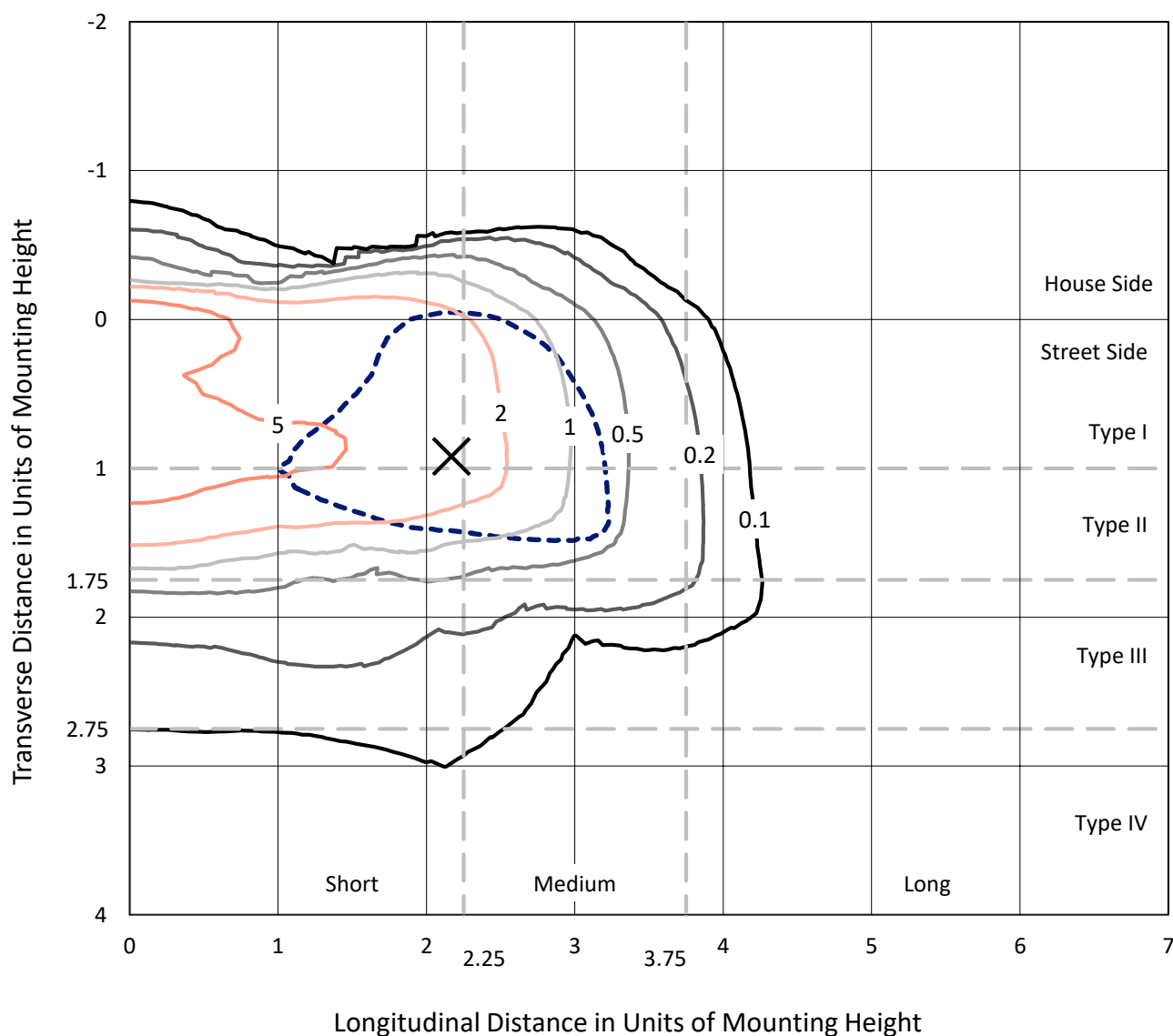
REPORT NUMBER: P192796

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

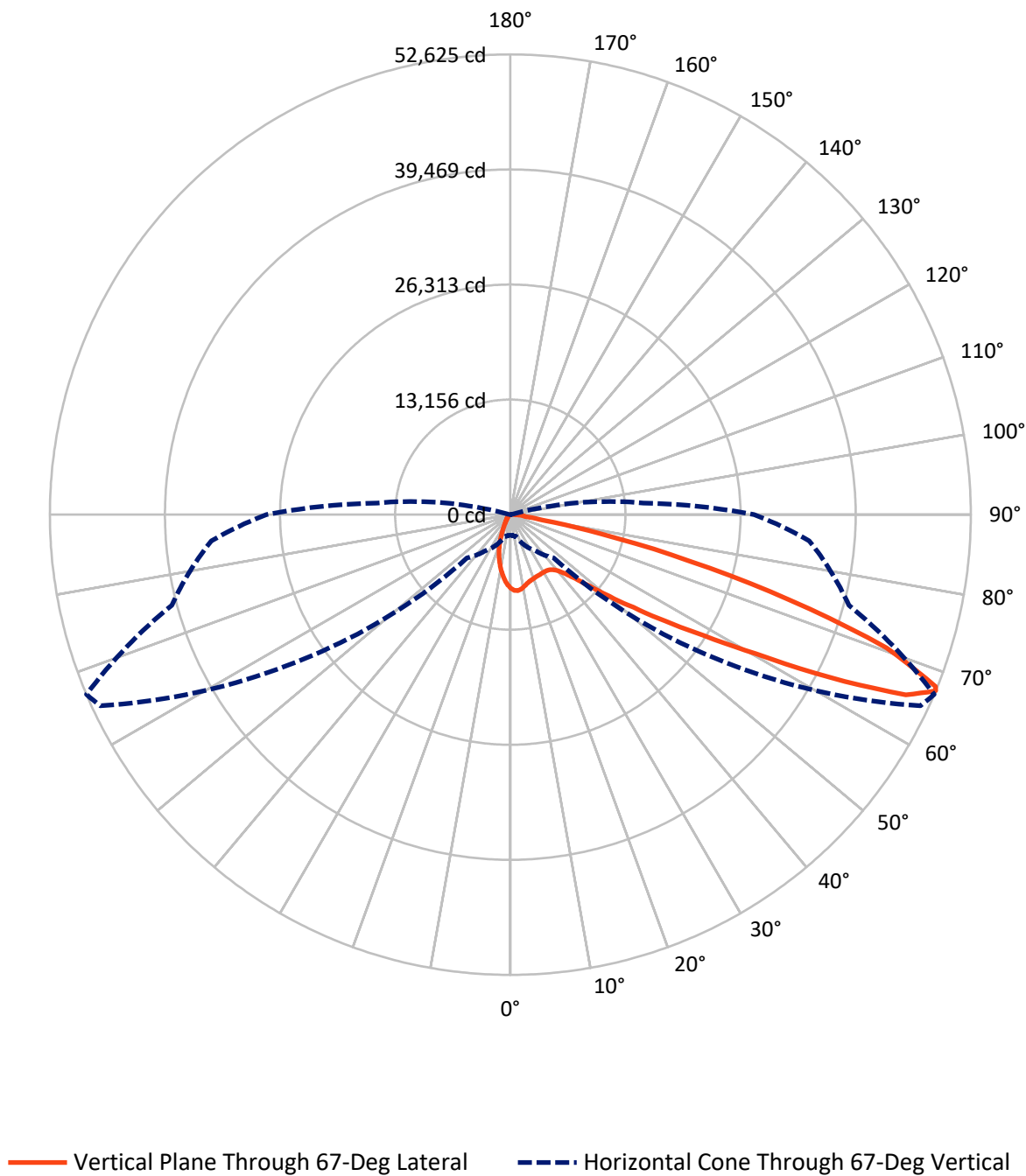


Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P192796

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P192796

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3967.9	0.0	3967.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	34247.7	0.0	34247.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	38215.6	0.0	38215.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.8	1.8
10°-20°	1459.6	3.8
20°-30°	2122.1	5.6
30°-40°	3310.6	8.7
40°-50°	5864.5	15.3
50°-60°	9280.0	24.3
60°-70°	10628.9	27.8
70°-80°	4408.8	11.5
80°-90°	455.4	1.2
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°	38215.6	100.0
0°-180°	38215.6	100.0

Coefficient of Utilization



REPORT NUMBER: P192796

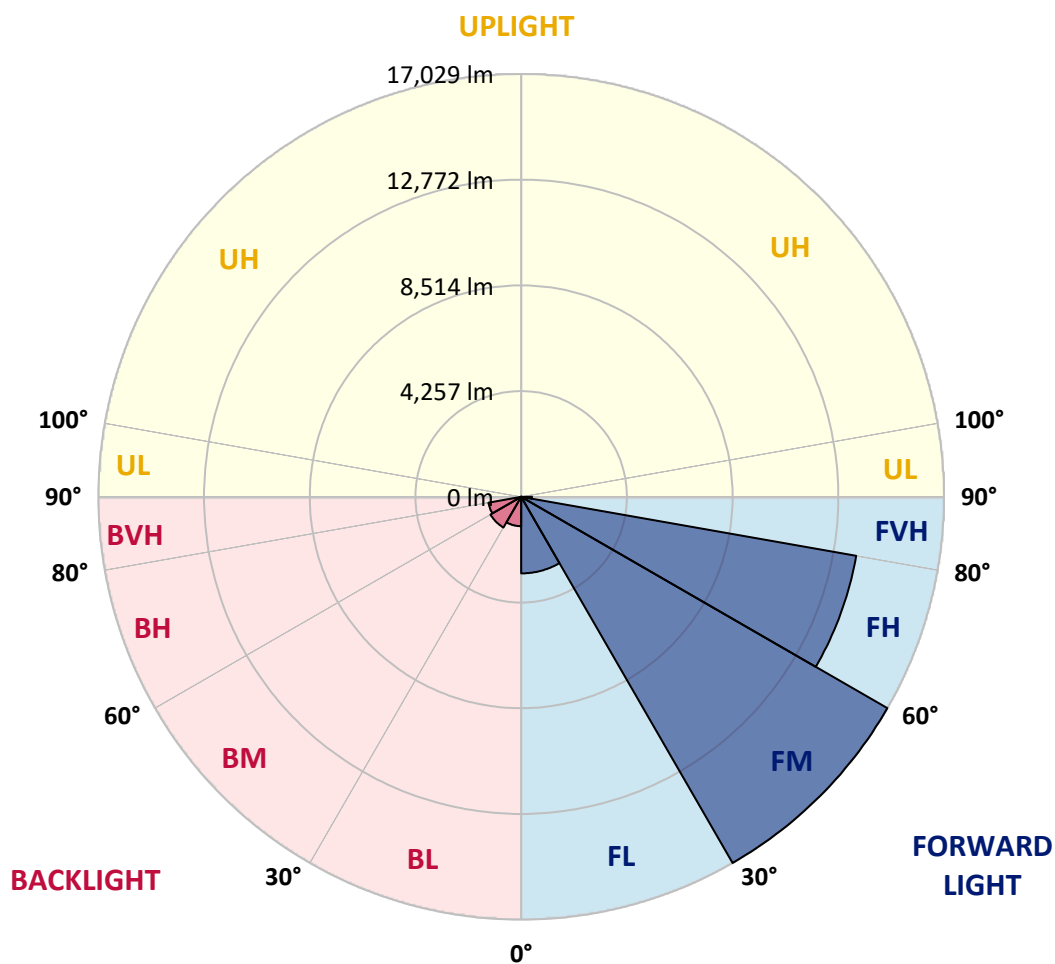
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3083.4	8.1			
FM	(30°-60°)	17029.0	44.6			
FH	(60°-80°)	13700.4	35.9			G5
FVH	(80°-90°)	434.9	1.1			G3/500
BL	(0°-30°)	1184.0	3.1	B3/2500		
BM	(30°-60°)	1426.0	3.7	B2/2500		
BH	(60°-80°)	1337.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	20.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



REPORT NUMBER: P192796

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9
2.5°	8713.3	8731.1	8728.8	8742.3	8773.4	8775.7	8744.4	8684.3	8671.0	8592.9	8456.8
5°	8035.7	8087.0	8118.1	8245.1	8387.9	8559.5	8688.8	8735.6	8728.8	8673.1	8468.0
7.5°	7262.1	7313.5	7349.1	7498.5	7687.9	7982.2	8318.8	8595.1	8619.7	8679.9	8459.2
10°	6747.3	6756.1	6805.2	6947.9	7146.2	7447.2	7848.4	8332.1	8405.7	8626.3	8436.9
12.5°	6323.7	6330.5	6395.1	6548.9	6760.6	7063.8	7485.1	8044.5	8158.3	8559.5	8432.4
15°	6022.8	6047.4	6105.3	6265.8	6490.9	6791.9	7224.3	7832.8	7968.9	8534.9	8472.5
17.5°	5922.5	5949.2	5967.0	6083.0	6288.1	6582.4	7025.9	7694.6	7848.4	8548.3	8550.5
20°	6027.3	6047.4	6007.2	6036.2	6163.4	6426.3	6858.7	7576.5	7759.3	8564.0	8650.8
22.5°	6417.4	6426.3	6317.1	6190.0	6167.6	6312.6	6727.2	7482.8	7679.0	8606.3	8769.0
25°	7086.1	7070.5	6892.2	6618.0	6359.4	6292.6	6649.2	7424.9	7638.9	8650.8	8891.6
27.5°	7893.0	7915.3	7670.1	7271.1	6778.5	6426.3	6638.0	7400.3	7621.1	8682.1	8998.6
30°	8873.7	8904.9	8624.2	8122.6	7416.0	6756.1	6740.5	7395.9	7609.9	8662.0	9007.6
32.5°	9874.7	9912.4	9691.9	9174.7	8267.4	7309.0	6972.4	7444.9	7632.2	8592.9	8956.2
35°	10922.2	10975.7	10828.5	10385.1	9422.1	8106.9	7380.4	7594.3	7736.9	8586.2	8904.9
37.5°	12368.9	12417.9	12141.6	11671.2	10819.7	9176.9	8035.7	7875.2	7984.3	8693.2	8918.3
40°	14528.7	14522.0	13808.8	13088.8	12355.5	10536.6	8956.2	8383.4	8439.0	9016.4	9083.3
42.5°	16882.6	16871.5	15817.1	14722.6	14060.7	12210.6	10166.6	9261.6	9223.6	9611.5	9511.2
45°	18697.1	18694.8	17834.5	16601.8	16113.7	14132.0	11731.3	10483.1	10425.2	10578.9	10300.3
47.5°	19470.5	19483.9	19051.5	18184.4	18389.4	16731.1	13704.1	12253.0	12166.0	12103.6	11680.2
50°	18868.7	18895.6	18931.2	18761.7	20059.0	20224.0	16349.9	14747.3	14704.8	14426.3	13764.3
52.5°	16902.7	17038.7	17457.8	17994.9	20638.5	23576.4	20498.1	17845.7	17618.3	17321.8	16592.8
55°	13590.4	13739.7	14535.6	15839.5	19775.9	25778.7	26311.5	21840.1	21461.0	20576.1	19524.1
57.5°	8994.1	9226.0	10380.6	12038.9	17270.5	26133.0	32111.4	27383.6	26064.1	23641.1	22455.2
60°	4955.1	5178.1	6430.8	7933.1	12473.7	24381.1	36012.2	34601.2	32269.6	27067.2	26014.9
62.5°	3051.5	3171.9	4097.0	5494.5	7480.7	19243.2	36819.1	43671.2	40971.7	31478.3	30314.7
65°	2429.6	2481.0	2933.4	4491.5	5363.0	11446.1	34213.3	50585.5	49685.0	36819.1	34164.3
67°	2358.4	2378.3	2592.4	3856.2	5055.4	7016.9	28663.1	51711.2	52625.2	40051.1	34284.7
67.5°	2373.8	2396.2	2599.1	3680.1	5046.4	6448.6	26750.6	51267.6	52422.3	40307.5	33752.0
70°	2289.2	2358.4	2975.7	3677.8	4799.1	5358.6	16020.0	44420.1	45621.5	37452.1	28638.6
72.5°	811.4	815.8	1286.2	2975.7	5218.1	5416.5	8044.5	32563.8	33453.2	28649.8	20647.5
75°	481.5	410.2	428.0	847.0	4986.4	5260.5	4640.8	20808.0	21140.1	16416.8	10456.3
77.5°	332.1	289.7	298.8	374.4	1899.2	5187.0	3686.9	10850.9	10496.5	5757.5	2226.8
80°	189.4	167.1	178.3	327.7	690.9	4839.2	3477.2	4400.1	3751.4	976.3	615.2
82.5°	100.3	84.6	102.4	269.8	481.5	3015.9	3484.0	2126.5	1685.1	329.9	419.0
85°	35.6	29.0	49.0	184.9	321.0	925.1	3229.8	1787.7	1404.3	160.5	318.7
87.5°	6.7	6.7	20.1	75.8	129.3	283.1	1910.3	1061.0	711.1	95.8	218.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P192796

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9	8427.9
2.5°	8401.2	8305.4	8176.1	8017.8	7830.6	7665.6	7543.0	7416.0	7389.2	7344.6	7338.0
5°	8345.4	8180.6	7859.6	7491.8	7099.4	6745.0	6457.4	6201.1	6087.5	5989.4	5978.2
7.5°	8263.1	8015.6	7469.5	6876.6	6263.7	5706.3	5233.7	4899.4	4591.8	4444.6	4422.4
10°	8167.1	7812.7	7030.4	6207.9	5360.8	4573.9	3871.8	3283.3	2926.7	2715.0	2688.3
12.5°	8078.0	7614.4	6582.4	5514.7	4389.0	3336.9	2434.1	1872.3	1498.0	1346.3	1328.5
15°	8035.7	7453.8	6163.4	4805.8	3372.5	2124.2	1330.8	1029.8	907.2	871.6	869.2
17.5°	8031.2	7317.8	5753.1	4072.4	2362.7	1234.8	867.1	791.2	766.8	757.8	757.8
20°	8028.9	7188.6	5343.0	3312.3	1500.1	822.5	722.2	704.4	686.5	675.4	675.4
22.5°	8053.5	7072.7	4915.0	2536.7	945.1	666.5	635.3	617.5	595.1	579.5	577.3
25°	8078.0	6983.6	4478.1	1805.5	684.3	579.5	548.4	523.8	492.6	472.5	470.4
27.5°	8082.5	6872.1	4010.1	1208.1	572.8	506.0	465.9	428.0	392.3	372.2	370.1
30°	8015.6	6684.8	3490.7	815.8	506.0	439.1	385.5	345.5	312.1	296.4	296.4
32.5°	7884.0	6453.1	2920.1	615.2	450.2	376.7	318.7	280.9	258.6	251.9	249.6
35°	7765.9	6203.4	2333.8	521.6	403.5	318.7	260.8	236.3	222.9	220.7	218.4
37.5°	7696.9	6002.8	1783.2	472.5	358.9	267.4	220.7	202.9	196.1	191.7	193.9
40°	7750.3	5835.6	1317.3	432.4	314.3	222.9	187.3	178.3	171.6	169.4	169.4
42.5°	7984.3	5806.6	978.5	396.7	271.9	184.9	162.7	156.0	151.6	149.3	151.6
45°	8599.6	5984.9	760.1	363.3	229.6	156.0	138.2	135.9	133.8	133.8	133.8
47.5°	9524.6	6352.8	633.0	325.5	191.7	133.8	120.4	118.1	116.0	118.1	118.1
50°	11091.7	7025.9	566.2	287.6	158.2	113.6	102.4	102.4	102.4	102.4	104.8
52.5°	13474.5	8349.9	521.6	249.6	129.3	95.8	87.0	87.0	89.1	89.1	91.3
55°	16129.3	10106.4	481.5	211.8	109.3	80.2	71.3	73.5	75.8	78.0	78.0
57.5°	19009.2	12052.4	448.1	173.8	93.6	64.7	60.2	62.4	64.7	69.1	69.1
60°	22484.3	14158.8	399.1	135.9	78.0	51.3	46.8	51.3	57.9	62.4	64.7
62.5°	26300.4	16196.1	336.6	107.0	64.7	40.1	37.9	46.8	55.7	60.2	62.4
65°	28908.3	16835.9	258.6	87.0	49.0	29.0	31.2	42.4	53.5	60.2	60.2
67°	27851.8	15264.4	211.8	73.5	40.1	22.3	29.0	42.4	53.5	57.9	60.2
67.5°	27118.3	14649.2	202.9	71.3	37.9	22.3	29.0	42.4	53.5	60.2	60.2
70°	22065.1	11004.7	169.4	53.5	31.2	20.1	24.5	40.1	51.3	57.9	57.9
72.5°	15331.3	6785.1	151.6	37.9	26.8	17.8	22.3	37.9	49.0	55.7	57.9
75°	7288.9	2456.3	129.3	29.0	24.5	15.7	20.1	37.9	49.0	55.7	55.7
77.5°	1486.8	570.7	104.8	24.5	20.1	15.7	17.8	35.6	46.8	53.5	53.5
80°	488.2	220.7	78.0	22.3	20.1	15.7	17.8	33.5	46.8	51.3	53.5
82.5°	352.2	111.5	51.3	22.3	20.1	15.7	15.7	33.5	44.6	51.3	51.3
85°	269.8	78.0	33.5	22.3	20.1	15.7	15.7	31.2	42.4	49.0	49.0
87.5°	178.3	31.2	26.8	22.3	20.1	15.7	15.7	31.2	40.1	46.8	49.0
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)