

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: P193003

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 29992.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 320
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

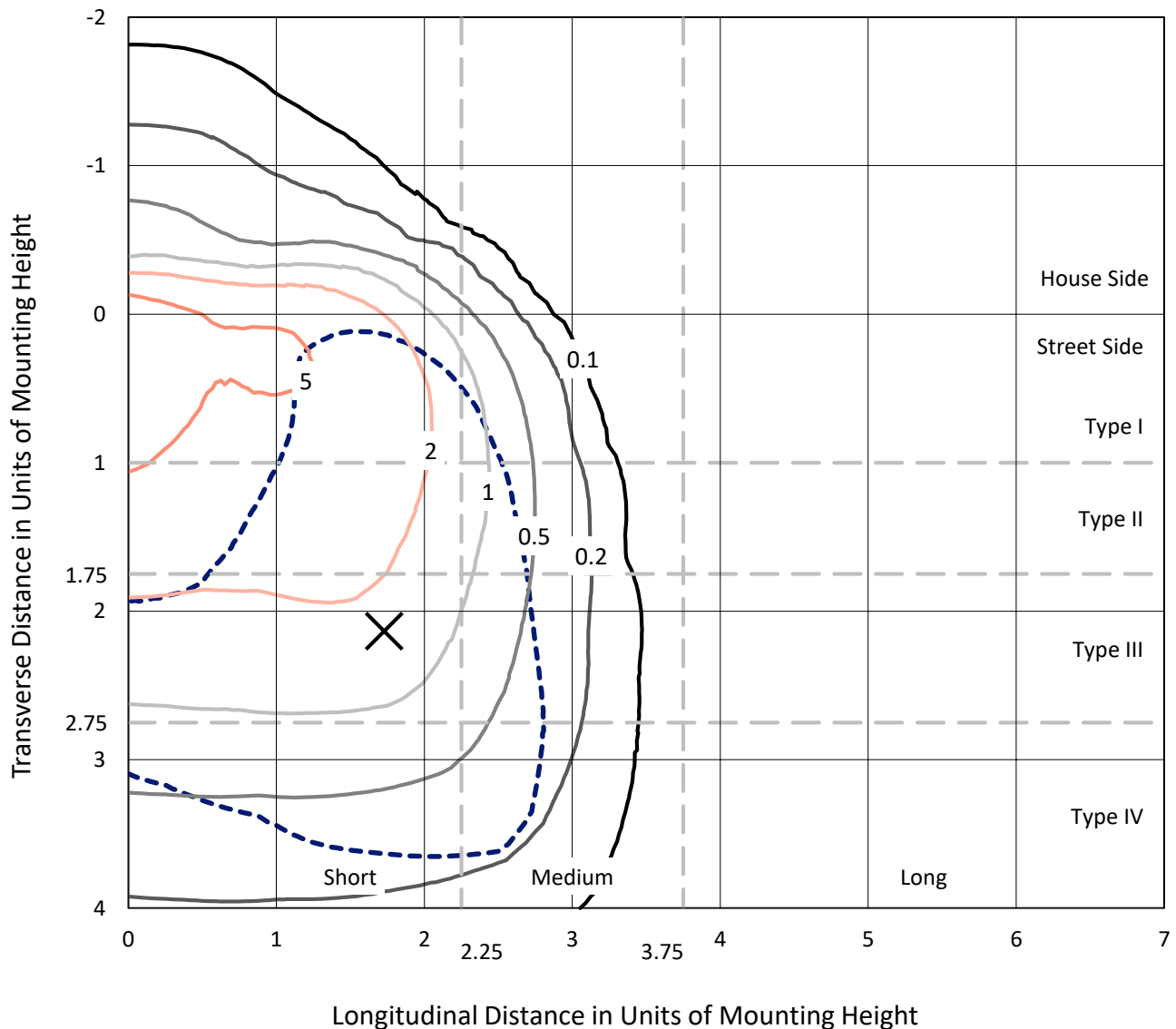


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

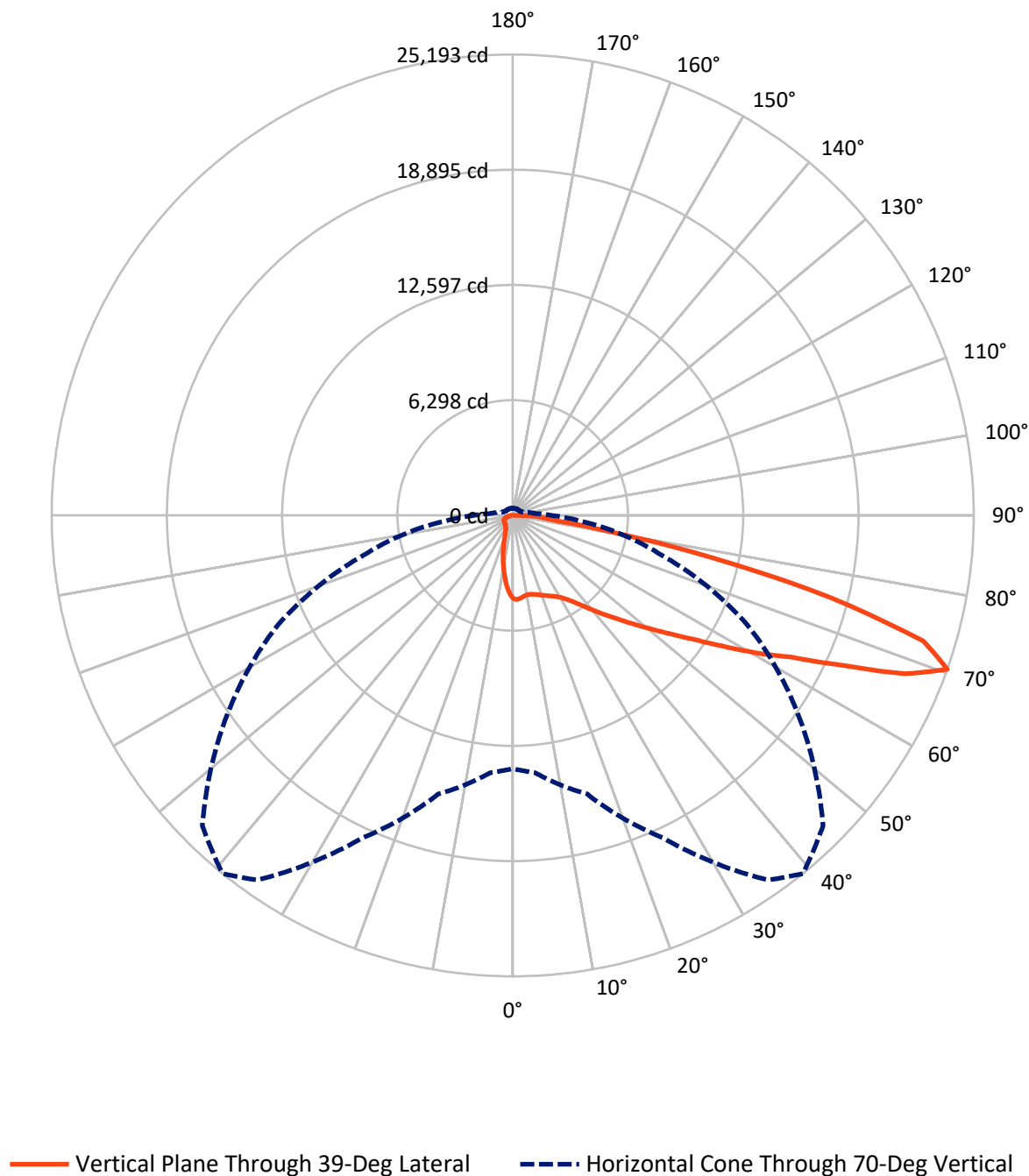


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3411.2	0.0	3411.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	26581.6	0.0	26581.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	29992.8	0.0	29992.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	1.3
10°-20°	976.8	3.3
20°-30°	1520.9	5.1
30°-40°	2369.2	7.9
40°-50°	3977.5	13.3
50°-60°	6318.6	21.1
60°-70°	8428.3	28.1
70°-80°	5089.6	17.0
80°-90°	921.2	3.1
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°	29992.8	100.0
0°-180°	29992.8	100.0

Coefficient of Utilization



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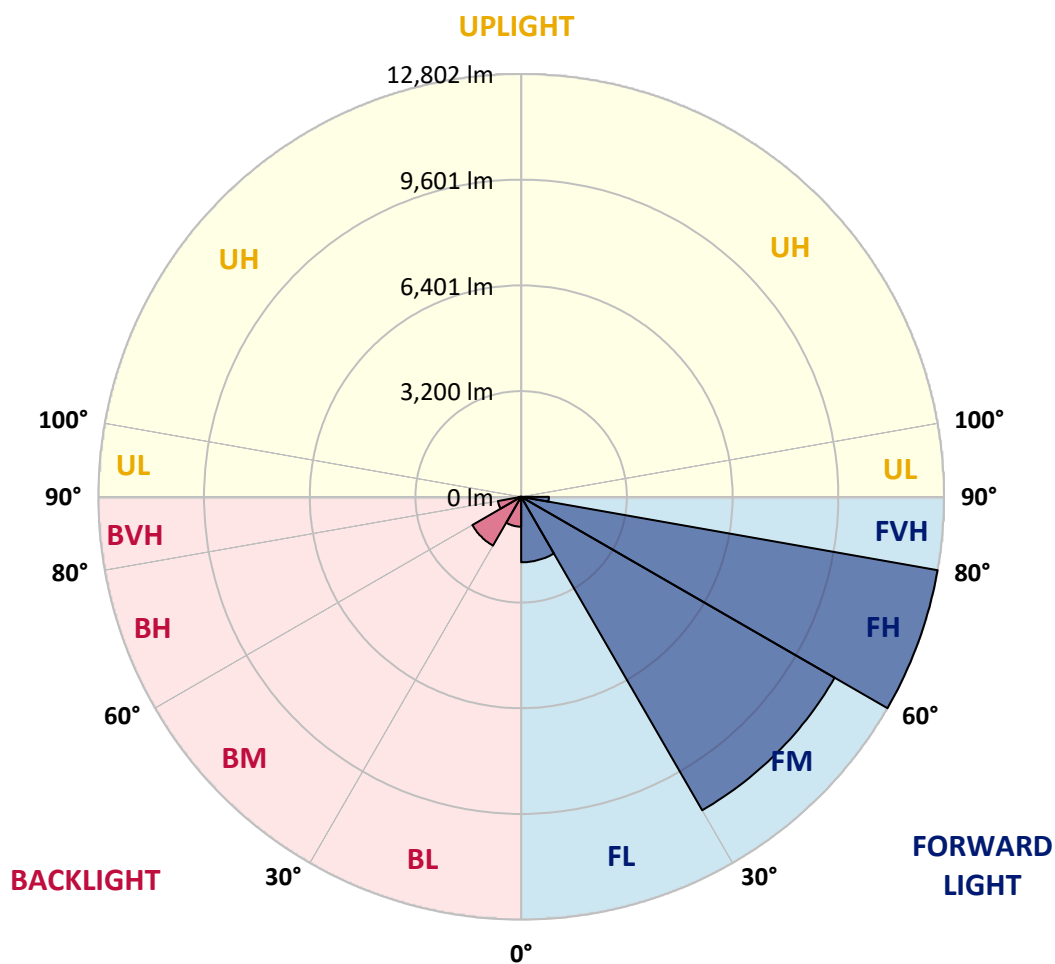
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1983.5	6.6			
FM	(30°-60°)	10958.2	36.5			
FH	(60°-80°)	12801.8	42.7			G5
FVH	(80°-90°)	838.1	2.8			G5
BL	(0°-30°)	904.9	3.0	B2/1000		
BM	(30°-60°)	1707.1	5.7	B2/2500		
BH	(60°-80°)	716.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	83.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4
2.5°	4641.8	4640.2	4628.1	4618.9	4611.3	4608.2	4614.3	4591.5	4571.6	4547.3	4521.3
5°	4606.7	4605.2	4585.4	4567.0	4548.8	4542.7	4541.2	4500.0	4475.6	4438.9	4390.1
7.5°	4568.5	4561.0	4535.1	4504.5	4472.5	4457.3	4442.1	4388.7	4361.2	4324.6	4268.2
10°	4529.1	4519.8	4495.5	4464.9	4434.4	4411.6	4385.6	4333.8	4304.9	4277.4	4211.8
12.5°	4487.9	4480.1	4474.0	4460.4	4438.9	4419.2	4399.4	4355.1	4324.6	4292.6	4216.4
15°	4481.7	4478.6	4492.4	4501.5	4489.4	4477.1	4455.8	4417.7	4385.6	4353.7	4254.4
17.5°	4530.6	4529.1	4564.1	4588.5	4582.4	4561.0	4532.0	4489.4	4463.3	4435.9	4312.5
20°	4637.2	4644.8	4687.6	4719.6	4689.1	4658.6	4611.3	4551.8	4538.1	4525.9	4371.9
22.5°	4838.5	4846.2	4876.7	4888.8	4809.6	4765.4	4699.8	4623.6	4614.3	4623.6	4443.6
25°	5152.6	5145.0	5140.4	5094.8	4949.9	4881.2	4797.3	4718.1	4722.6	4763.8	4544.2
27.5°	5569.0	5527.8	5463.7	5326.5	5096.2	5020.0	4917.9	4844.7	4873.6	4952.9	4695.2
30°	6000.5	5954.7	5806.8	5582.7	5288.3	5204.4	5090.2	5007.8	5084.1	5209.1	4896.5
32.5°	6400.1	6394.0	6177.4	5889.2	5553.7	5480.6	5366.2	5273.1	5396.7	5587.3	5198.4
35°	6836.2	6849.9	6590.6	6244.5	5912.0	5835.9	5753.5	5683.3	5848.0	6110.4	5636.0
37.5°	7302.8	7330.2	7023.7	6633.3	6320.7	6288.8	6239.9	6209.4	6464.1	6826.9	6247.6
40°	7926.4	7899.0	7473.6	7072.5	6822.4	6820.9	6805.6	6842.3	7266.2	7763.3	7032.9
42.5°	8594.4	8513.6	7950.9	7543.7	7373.0	7424.7	7455.3	7604.7	8231.5	8901.0	7990.4
45°	9314.2	9132.7	8446.4	8042.3	7984.4	8094.2	8197.9	8522.7	9367.5	10195.5	9039.7
47.5°	9889.0	9713.7	8958.8	8565.4	8692.0	8858.2	9057.9	9571.8	10639.2	11532.9	10075.1
50°	10341.9	10227.5	9475.7	9175.4	9471.1	9727.4	10053.7	10759.8	11962.9	12835.1	11034.2
52.5°	10781.0	10695.7	9997.2	9800.5	10386.0	10739.8	11183.7	12034.6	13320.1	14116.1	11840.9
55°	11177.6	11116.6	10558.5	10579.8	11462.7	11923.3	12481.3	13486.3	14799.1	15258.2	12524.1
57.5°	11624.3	11546.6	11198.8	11557.2	12845.8	13443.6	14169.4	15117.8	16186.9	16273.7	13044.0
60°	12074.2	12007.0	11909.5	12685.6	14602.5	15230.7	15918.5	16699.1	17594.3	17062.2	13013.6
62.5°	12464.7	12472.2	12644.5	13870.6	16322.6	17049.9	17888.7	18660.3	18867.7	17199.4	12051.3
65°	13126.4	13246.8	13760.7	15547.9	18744.1	19717.0	20746.3	20622.8	19219.9	15917.0	9988.2
67.5°	13913.2	14125.1	15166.8	17783.5	21804.7	23096.2	23494.2	21066.6	17809.4	12938.8	7119.8
70°	13834.0	14125.1	15773.6	19450.2	24326.8	25193.0	23985.2	19065.8	14142.0	8452.6	3781.8
72.5°	12284.7	12701.0	14537.0	18686.2	23532.4	23456.1	20822.5	14213.6	8402.2	3394.4	1477.6
75°	9362.9	9783.8	11363.6	14762.6	18599.3	17958.8	14774.8	7851.7	3188.6	1348.0	931.8
77.5°	5385.9	5712.3	6932.2	9053.3	11799.7	11142.5	8223.8	3492.0	1552.3	939.3	727.3
80°	3007.2	3188.6	3929.7	4593.0	5782.4	5300.6	3679.7	2169.9	1158.9	681.7	561.1
82.5°	2377.4	2538.9	3178.0	2897.3	2641.2	2436.8	2113.5	1932.0	925.7	430.1	335.4
85°	2076.9	2231.0	2690.0	2281.3	1804.0	1654.5	1717.0	1901.5	719.8	259.3	286.7
87.5°	1924.4	2130.3	2397.1	1758.2	1404.4	1244.4	1584.4	2084.5	231.7	161.6	116.0
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°	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4	4553.4
2.5°	4498.4	4474.0	4434.4	4399.4	4344.4	4315.5	4283.5	4260.6	4242.3	4227.0	4251.4
5°	4359.7	4314.0	4230.1	4140.2	4033.5	3949.5	3879.4	3813.8	3768.1	3737.5	3758.8
7.5°	4228.6	4153.8	4022.7	3859.6	3676.6	3521.0	3392.9	3280.1	3202.3	3152.0	3171.8
10°	4153.8	4060.8	3858.1	3601.8	3332.0	3089.5	2888.2	2714.3	2593.9	2525.2	2535.9
12.5°	4135.6	4015.1	3734.5	3382.2	3013.3	2676.2	2392.6	2151.7	1982.4	1893.9	1897.0
15°	4149.2	3995.3	3618.5	3171.8	2705.2	2279.7	1925.9	1633.2	1436.4	1335.8	1334.3
17.5°	4172.2	3980.0	3496.7	2944.5	2392.6	1898.5	1503.5	1216.8	1043.0	962.2	956.1
20°	4196.5	3955.6	3359.4	2699.0	2067.7	1544.7	1177.3	953.1	843.3	799.0	796.0
22.5°	4231.6	3934.2	3217.5	2439.9	1749.0	1258.0	968.4	817.4	759.4	736.5	733.4
25°	4288.0	3923.6	3066.6	2169.9	1462.4	1052.1	843.3	750.3	716.7	701.5	700.0
27.5°	4382.6	3938.8	2924.8	1907.6	1229.0	913.4	773.1	716.7	692.2	678.6	677.1
30°	4504.5	3986.1	2775.3	1659.1	1047.6	818.9	730.4	693.8	674.0	660.3	660.3
32.5°	4707.4	4065.4	2618.3	1444.1	918.0	753.4	698.3	674.0	657.2	646.6	645.0
35°	5006.3	4214.7	2471.9	1265.7	825.0	706.1	671.0	652.6	640.5	634.4	634.4
37.5°	5440.9	4451.2	2342.3	1137.6	768.5	674.0	645.0	631.3	623.7	623.7	623.7
40°	6024.9	4777.6	2237.1	1052.1	736.5	651.1	625.2	614.6	610.0	611.6	611.6
42.5°	6746.2	5201.4	2166.9	992.7	721.3	637.4	611.6	602.3	597.7	596.2	597.7
45°	7568.1	5683.3	2159.3	948.5	706.1	628.2	602.3	593.2	584.0	578.0	578.0
47.5°	8367.2	6172.8	2221.8	933.3	689.2	617.6	594.7	585.5	571.9	558.1	558.1
50°	9073.2	6589.1	2305.7	939.3	683.2	602.3	582.5	578.0	556.5	541.4	539.8
52.5°	9634.4	6909.3	2374.3	957.6	689.2	591.6	567.3	568.8	546.0	529.2	527.6
55°	10084.2	7119.8	2355.9	975.9	703.0	585.5	553.5	556.5	538.3	521.5	521.5
57.5°	10280.9	7042.0	2153.2	960.7	713.7	587.0	542.9	555.0	539.8	524.6	524.6
60°	9858.5	6351.2	1773.5	893.6	700.0	582.5	538.3	561.1	559.6	544.4	542.9
62.5°	8580.6	5114.5	1375.5	794.5	652.6	559.6	526.1	559.6	576.5	571.9	570.4
65°	6613.5	3643.0	1050.6	687.7	588.6	521.5	494.1	524.6	547.4	553.5	552.0
67.5°	4292.6	2232.5	809.7	587.0	516.9	477.3	452.9	466.6	471.2	471.2	468.1
70°	2110.5	1201.7	645.0	494.1	443.7	430.1	416.3	408.6	401.1	395.0	395.0
72.5°	1041.5	785.3	530.7	417.8	382.7	376.6	373.5	364.5	358.4	350.7	347.7
75°	770.1	638.9	451.4	352.3	329.4	323.3	329.4	321.8	320.2	314.1	311.1
77.5°	632.8	544.4	388.9	301.9	282.1	271.4	280.6	282.1	283.6	274.5	271.4
80°	513.8	460.5	324.8	250.1	231.7	224.2	230.2	242.4	245.5	231.7	225.7
82.5°	370.5	376.6	262.3	195.1	180.0	173.8	186.1	201.2	204.4	184.5	180.0
85°	311.1	314.1	201.2	138.8	123.5	114.4	134.2	149.4	160.1	140.3	135.7
87.5°	129.6	184.5	116.0	77.8	68.7	59.4	71.7	79.3	96.0	88.4	87.0
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)