

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: P191954

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191954  
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-06-LED-E1-SL3-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA 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: 23458 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 193  
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

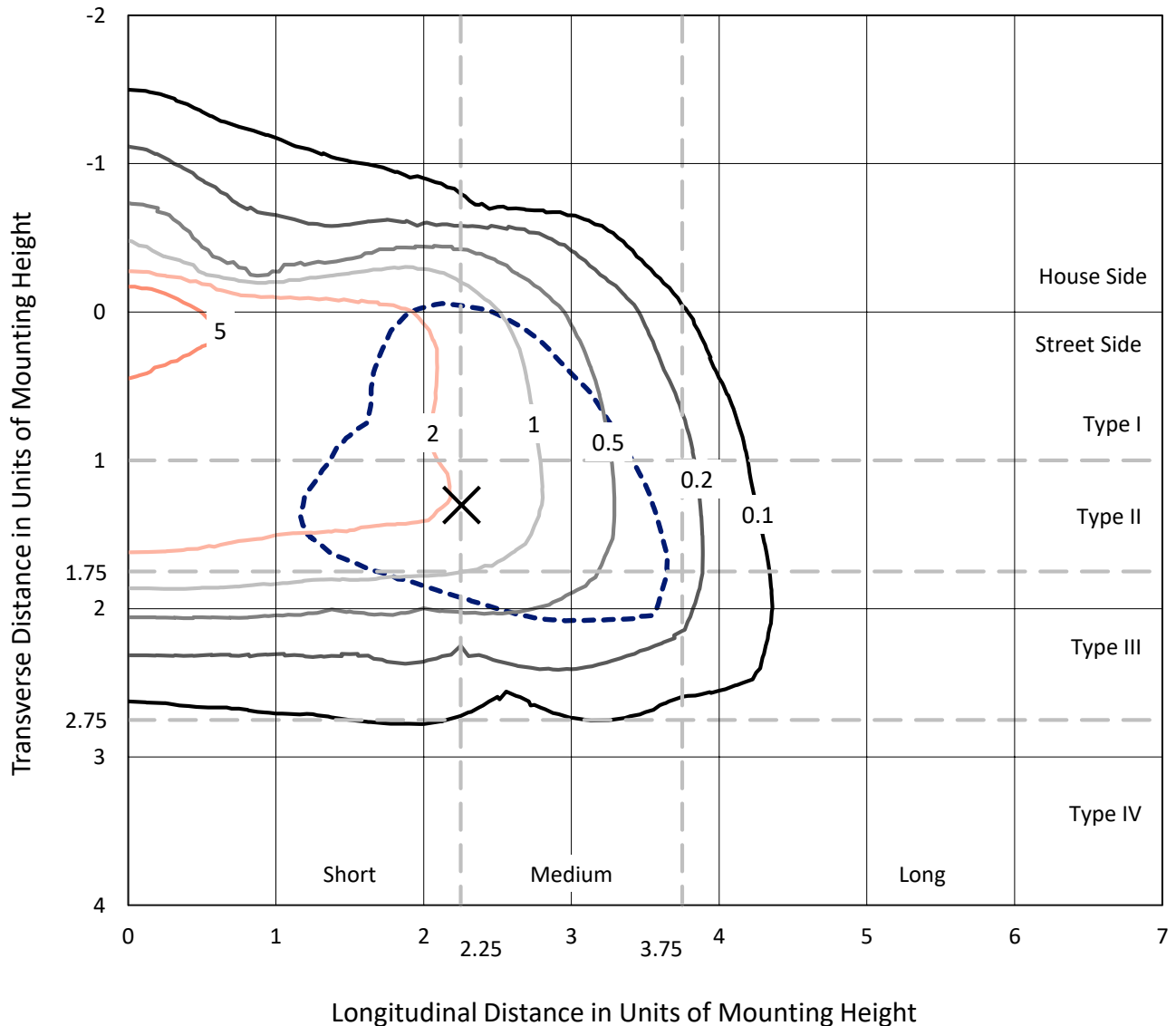


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### Iso-Footcandle Lines of Horizontal Illumination

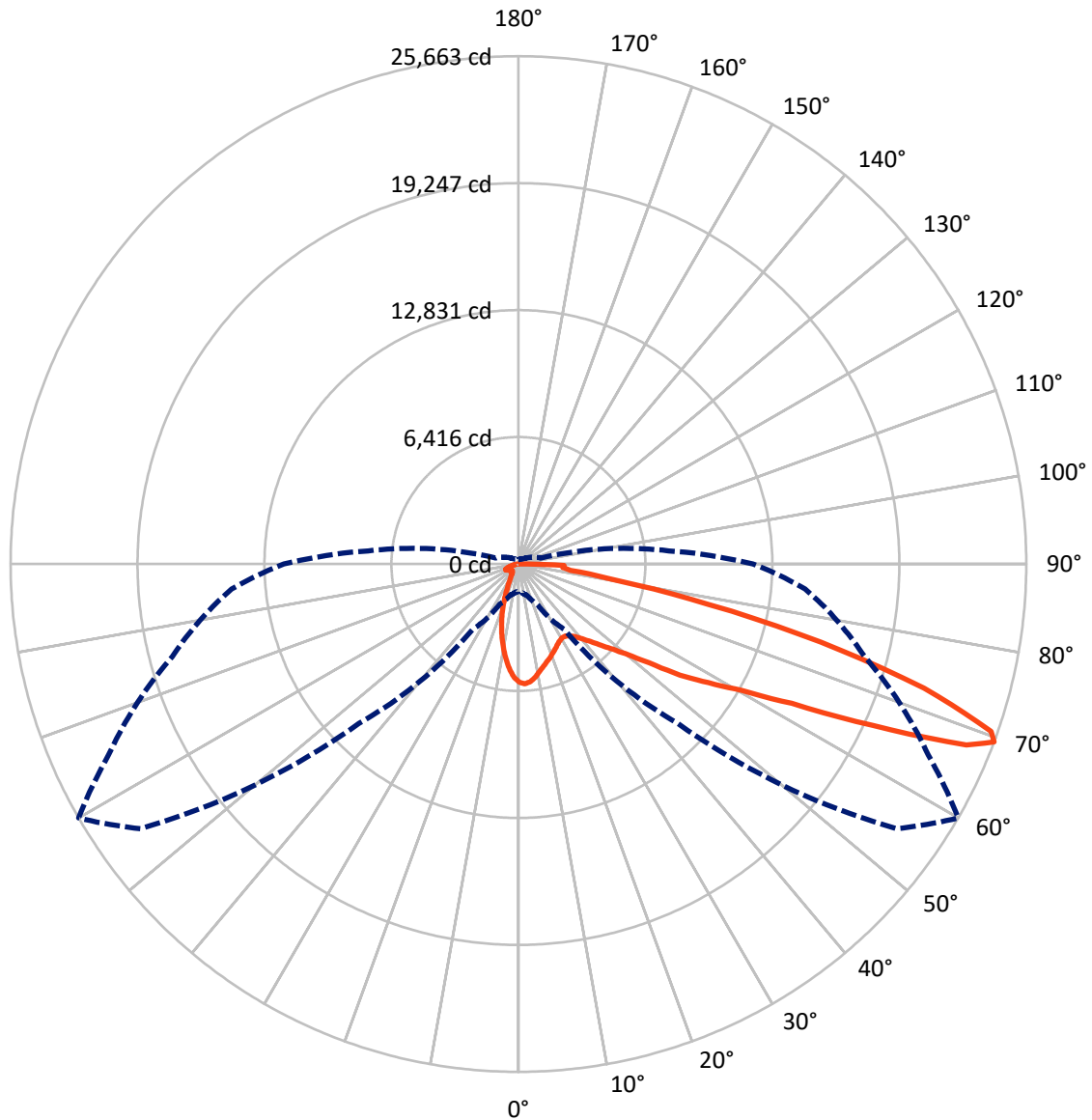
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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
<b>House Side</b>	Lumens	3337.3	0.0	3337.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	20120.7	0.0	20120.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	23458.0	0.0	23458.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.4	2.2
10°-20°	1076.8	4.6
20°-30°	1372.1	5.8
30°-40°	1886.2	8.0
40°-50°	3060.6	13.0
50°-60°	4908.4	20.9
60°-70°	6532.7	27.8
70°-80°	3527.2	15.0
80°-90°	588.5	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°	23458.0	100.0
0°-180°	23458.0	100.0

**Coefficient of Utilization**



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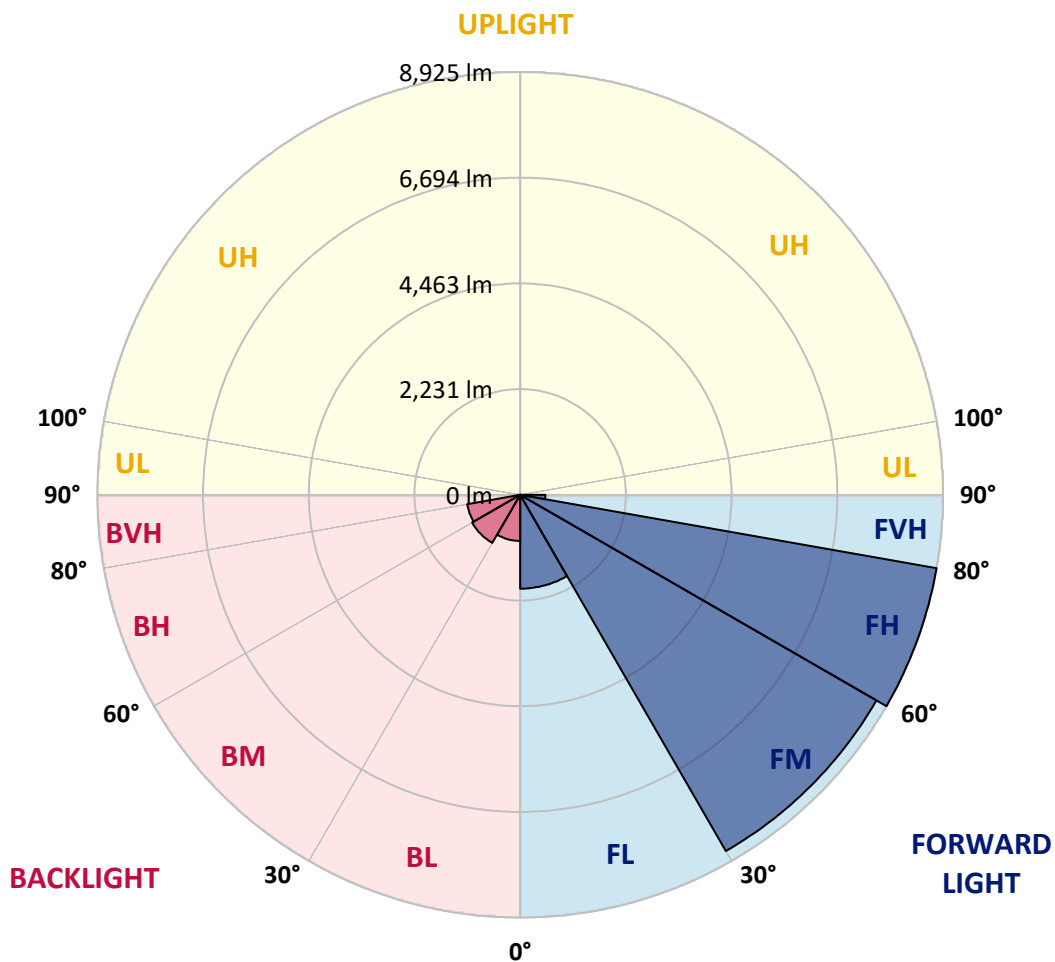
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1980.7	8.4			
FM	(30°-60°)	8682.8	37.0			
FH	(60°-80°)	8925.3	38.0			G4/12000
FVH	(80°-90°)	531.9	2.3			G4/750
BL	(0°-30°)	973.6	4.2	B2/1000		
BM	(30°-60°)	1172.5	5.0	B2/2500		
BH	(60°-80°)	1134.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	56.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5
2.5°	6099.8	6113.4	6107.8	6104.4	6114.6	6098.7	6065.8	6055.6	6039.8	6002.4	5938.9
5°	5870.9	5911.7	5909.5	5940.1	5991.1	6004.7	5989.9	5992.2	5962.7	5916.3	5810.9
7.5°	5475.5	5492.5	5501.5	5568.4	5661.3	5736.1	5799.5	5819.9	5806.3	5766.7	5630.7
10°	5067.5	5081.1	5102.6	5180.8	5298.7	5401.8	5521.9	5591.0	5620.5	5613.7	5461.9
12.5°	4717.4	4731.0	4759.3	4847.7	4988.2	5115.1	5289.6	5375.7	5446.0	5487.9	5324.8
15°	4403.5	4432.9	4460.1	4562.1	4719.6	4886.2	5083.4	5192.2	5301.0	5395.0	5203.5
17.5°	4158.7	4188.2	4204.0	4297.0	4464.7	4668.6	4899.8	5027.9	5163.8	5318.0	5083.4
20°	4017.1	4030.7	4023.9	4076.0	4226.7	4443.1	4717.4	4865.8	5030.1	5245.4	4963.3
22.5°	3977.4	3978.5	3953.6	3948.0	4045.4	4227.8	4522.5	4702.6	4904.3	5197.8	4860.2
25°	4073.7	4070.3	4002.3	3946.8	3957.0	4063.5	4334.4	4544.0	4799.0	5187.6	4780.8
27.5°	4287.9	4298.1	4197.2	4093.0	3989.9	3986.5	4191.6	4412.6	4712.8	5234.1	4746.8
30°	4588.2	4605.2	4497.5	4365.0	4171.2	4011.4	4136.1	4334.4	4659.6	5330.4	4741.2
32.5°	4916.8	4934.9	4853.4	4714.0	4460.1	4165.5	4174.6	4341.2	4657.3	5465.3	4779.7
35°	5267.0	5287.4	5245.4	5127.6	4845.4	4449.9	4321.9	4451.1	4731.0	5671.5	4882.8
37.5°	5657.9	5689.6	5701.0	5588.8	5287.4	4825.0	4563.3	4659.6	4897.5	5958.2	5072.1
40°	6221.1	6265.3	6261.9	6101.0	5793.9	5331.5	4936.1	4961.0	5157.0	6341.2	5374.6
42.5°	7299.9	7308.9	7026.8	6676.6	6351.4	5864.1	5375.7	5355.3	5515.1	6826.2	5819.9
45°	8672.1	8634.7	8007.0	7330.5	6933.8	6476.0	5948.0	5848.3	5969.5	7417.7	6377.5
47.5°	9811.0	9724.8	8931.6	7997.9	7550.3	7141.2	6620.0	6445.5	6512.3	8088.5	7098.2
50°	10206.4	10141.8	9484.6	8553.1	8133.9	7952.6	7447.2	7200.1	7218.3	8888.6	7942.4
52.5°	10121.4	10112.4	9673.8	8919.2	8680.1	8804.7	8618.9	8284.6	8107.8	9777.0	8853.4
55°	9920.9	9940.1	9781.5	9345.2	9304.4	9627.4	10149.8	9902.7	9353.2	10673.3	9795.1
57.5°	9224.0	9273.8	9622.9	9881.2	10309.6	10790.0	11382.7	11312.4	10693.7	11642.2	10914.7
60°	7431.3	7546.9	8482.9	9777.0	11344.1	12846.7	13111.9	12948.7	12076.2	12844.4	12393.4
62.5°	5206.9	5327.0	6439.8	8464.8	11174.2	15169.7	16203.2	15499.5	14061.5	14615.6	14307.4
65°	2787.6	2845.4	3695.3	5873.2	9433.6	15649.0	20721.1	19650.2	17204.9	16799.2	15944.8
67.5°	1537.7	1569.4	1894.7	2965.5	6042.0	13780.4	23599.3	24408.4	21133.6	18253.1	15646.8
69°	1390.4	1419.9	1632.9	2245.9	4043.1	11394.0	23318.3	25662.8	22856.0	18109.1	14545.3
70°	1359.8	1387.0	1578.5	2070.3	3272.6	9391.7	22376.6	25342.1	23266.2	17593.5	13584.4
72.5°	1223.8	1253.3	1439.1	1859.5	2796.7	4682.2	17725.0	21427.1	21123.4	15254.7	10303.9
75°	1141.1	1168.3	1483.3	1821.0	2677.7	2963.2	11685.2	15791.8	15527.8	10671.0	5555.9
77.5°	488.4	486.1	687.8	1541.1	2717.3	2869.2	6278.9	9865.3	9000.7	4561.0	1595.5
80°	326.4	320.7	326.4	453.3	2491.8	2885.0	3289.6	5007.5	3782.5	1162.6	786.4
82.5°	281.0	276.5	286.7	276.5	875.9	3293.0	2796.7	2662.9	1798.3	660.6	389.8
85°	189.2	181.3	247.0	248.2	413.6	2925.8	3150.2	2249.3	1455.0	392.1	192.6
87.5°	90.7	88.4	143.9	175.6	242.5	1188.7	3534.3	2304.9	1467.5	200.6	91.8
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°	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5	5977.5
2.5°	5919.7	5873.2	5827.9	5773.5	5716.8	5653.4	5621.6	5589.9	5582.0	5572.9	5541.2
5°	5756.5	5690.8	5577.4	5452.8	5321.4	5193.3	5095.9	5034.7	4988.2	4964.4	4922.5
7.5°	5545.7	5449.4	5251.1	5035.8	4814.8	4613.1	4438.6	4328.7	4224.4	4175.7	4120.2
10°	5345.1	5201.2	4893.0	4575.7	4258.4	3953.6	3666.9	3464.1	3283.9	3183.1	3111.7
12.5°	5172.9	4975.7	4548.5	4119.1	3683.9	3249.9	2820.5	2482.8	2200.6	2052.2	1976.2
15°	5005.2	4767.2	4221.0	3676.0	3117.3	2527.0	1962.6	1579.6	1346.2	1253.3	1221.6
17.5°	4853.4	4548.5	3892.4	3229.5	2532.6	1818.7	1319.0	1108.2	1018.7	988.1	977.9
20°	4689.0	4327.6	3551.3	2762.7	1923.0	1271.4	1030.0	937.1	900.9	891.8	887.3
22.5°	4530.4	4110.0	3225.0	2262.9	1381.3	981.3	885.0	846.5	840.8	848.7	848.7
25°	4395.6	3915.1	2872.6	1740.5	1014.2	826.1	792.1	783.0	804.5	834.0	839.7
27.5°	4294.7	3755.3	2497.5	1285.0	807.9	718.4	717.3	732.0	785.3	841.9	853.3
30°	4225.6	3603.5	2096.4	926.9	677.6	632.3	650.4	682.2	760.4	840.8	862.3
32.5°	4190.5	3491.3	1678.2	717.3	580.2	555.3	585.8	624.4	701.4	776.2	804.5
35°	4217.6	3408.6	1283.9	598.3	512.2	492.9	524.7	562.1	607.4	639.1	660.6
37.5°	4319.6	3375.7	968.9	536.0	465.7	447.6	472.5	494.1	512.2	521.3	531.5
40°	4539.5	3410.8	776.2	504.3	439.7	417.0	427.2	435.1	446.5	455.5	460.1
42.5°	4863.6	3516.2	695.8	491.8	426.1	393.2	390.9	394.3	409.1	426.1	429.5
45°	5316.8	3702.1	690.1	499.7	419.3	373.9	363.7	368.3	390.9	417.0	421.5
47.5°	5895.9	3985.3	735.4	523.5	424.9	363.7	346.7	352.4	380.7	415.9	421.5
50°	6597.3	4380.8	811.3	558.7	449.9	366.0	341.1	344.5	373.9	412.5	418.1
52.5°	7425.6	4941.7	894.1	592.6	475.9	380.7	345.6	337.7	364.9	398.9	405.7
55°	8346.9	5661.3	979.1	623.2	489.5	398.9	354.7	328.6	347.9	376.2	381.9
57.5°	9477.8	6667.6	1126.4	652.7	498.6	411.3	363.7	319.6	326.4	346.7	351.3
60°	11008.7	8090.8	1385.9	701.4	519.0	415.9	362.6	311.6	304.8	316.2	318.4
62.5°	12843.3	9636.5	1602.3	762.6	553.0	419.3	355.8	306.0	286.7	286.7	289.0
65°	13932.3	10050.1	1482.2	813.6	581.3	415.9	347.9	300.3	273.1	260.6	261.8
67.5°	13008.8	8838.7	1270.3	823.8	580.2	400.0	335.4	290.1	259.5	240.2	239.1
69°	11851.8	7626.2	1175.1	796.6	553.0	379.6	319.6	278.8	249.3	228.9	227.8
70°	10919.2	6886.3	1112.8	767.2	523.5	364.9	307.1	268.6	241.4	222.1	219.8
72.5°	7939.0	4512.3	950.7	659.5	431.7	306.0	265.2	235.7	215.3	204.0	201.7
75°	3967.2	2151.9	771.7	534.9	330.9	244.8	217.6	197.2	187.0	184.7	183.6
77.5°	1303.1	985.9	551.9	398.9	245.9	191.5	175.6	160.9	158.6	165.4	163.2
80°	716.2	573.4	350.1	264.0	167.7	140.5	138.2	130.3	133.7	145.0	142.8
82.5°	364.9	298.0	216.4	158.6	113.3	100.9	109.9	105.4	109.9	120.1	119.0
85°	180.2	163.2	137.1	96.3	74.8	64.6	78.2	81.6	83.9	91.8	91.8
87.5°	104.3	96.3	72.5	45.3	37.4	34.0	45.3	44.2	52.1	56.7	55.5
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)