

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: P269720

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL3-7027-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43730.9 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 558  
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

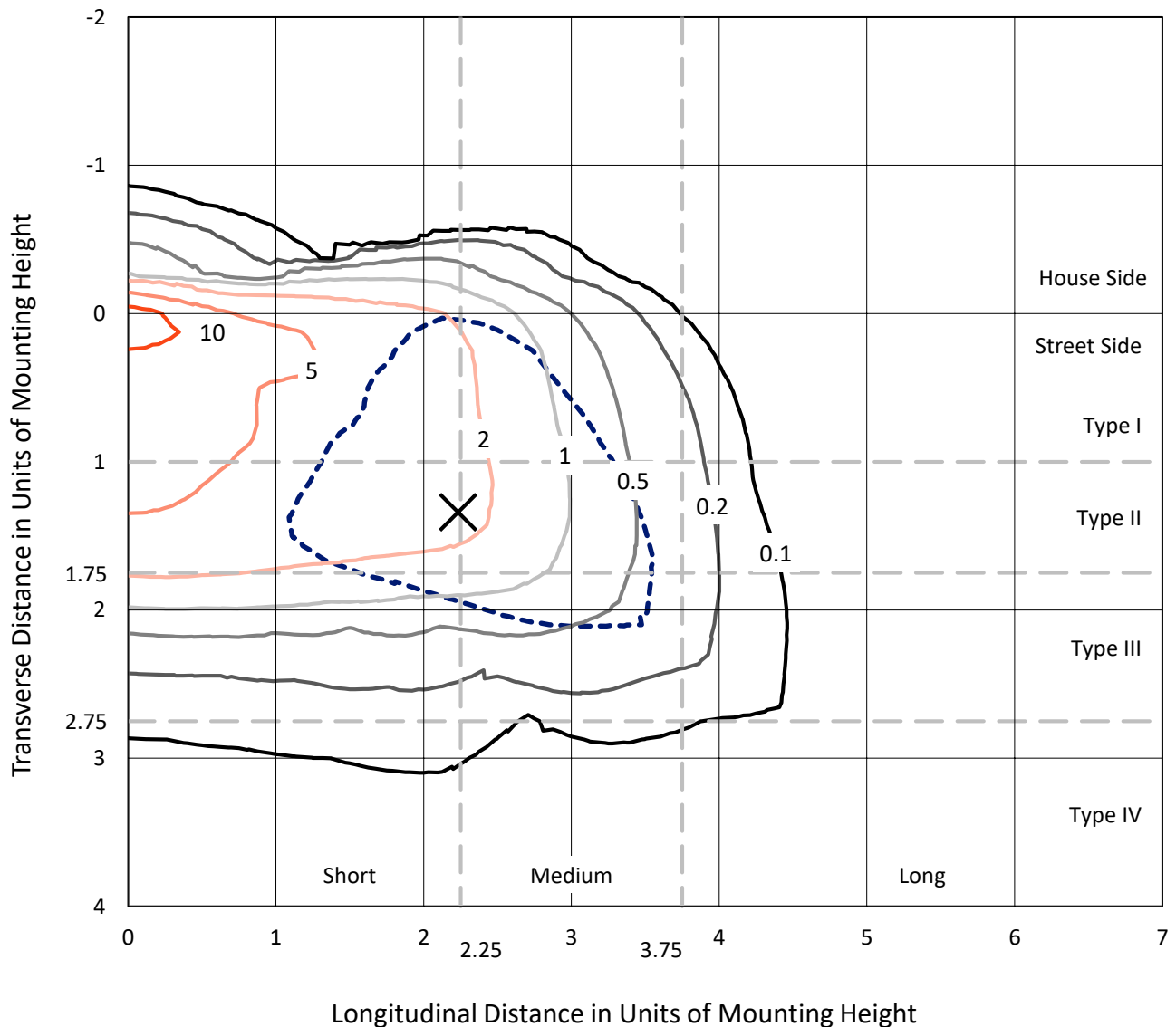


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

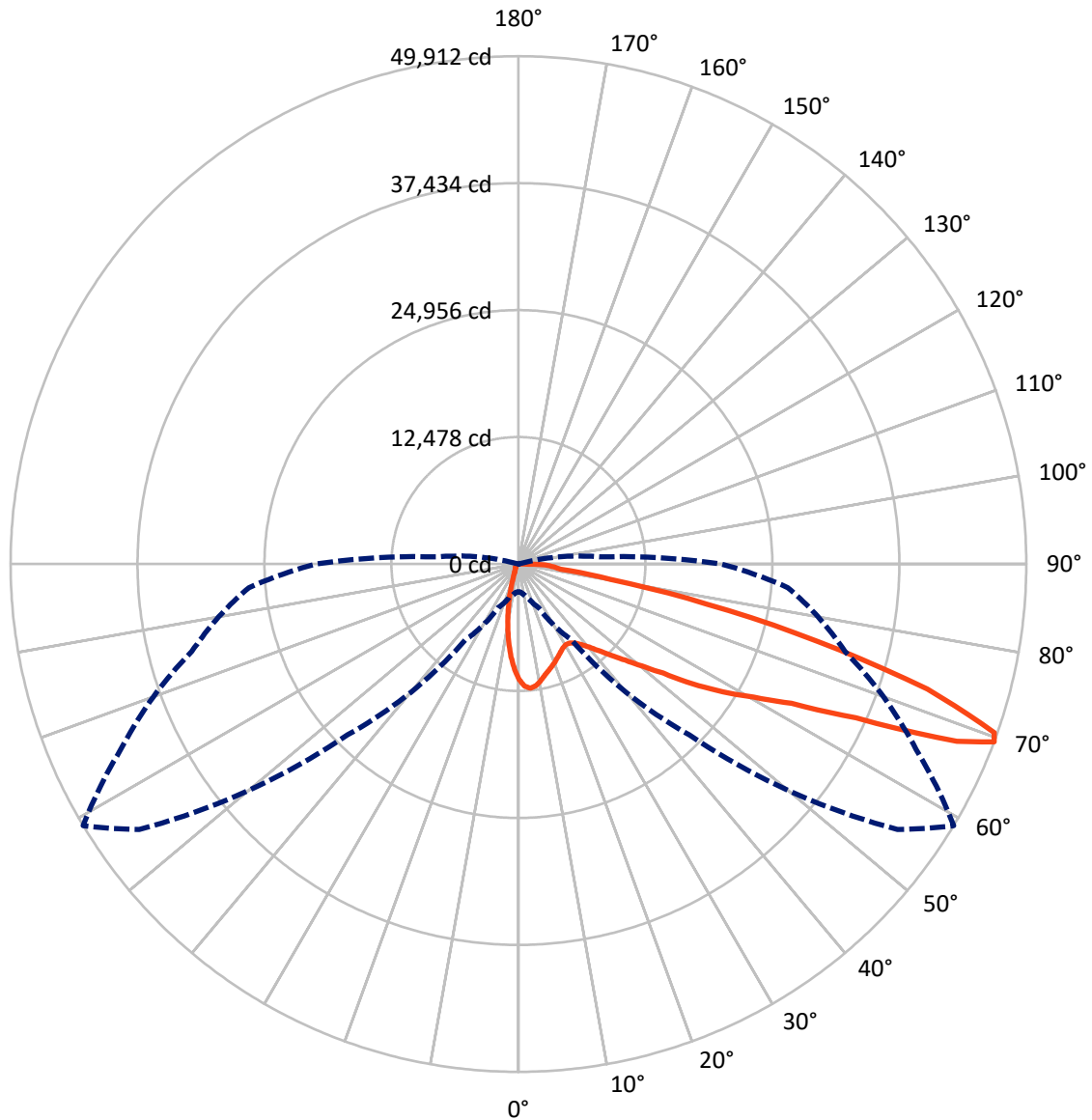


Based on 30 foot mounting height. Maximum calculated value = 12.7 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3561.3	0.0	3561.3
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	40169.6	0.0	40169.6
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	43730.9	0.0	43730.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.9	2.1
10°-20°	1909.1	4.4
20°-30°	2568.9	5.9
30°-40°	3729.9	8.5
40°-50°	6210.6	14.2
50°-60°	9688.4	22.2
60°-70°	11988.6	27.4
70°-80°	6075.7	13.9
80°-90°	635.7	1.5
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°	43730.9	100.0
0°-180°	43730.9	100.0



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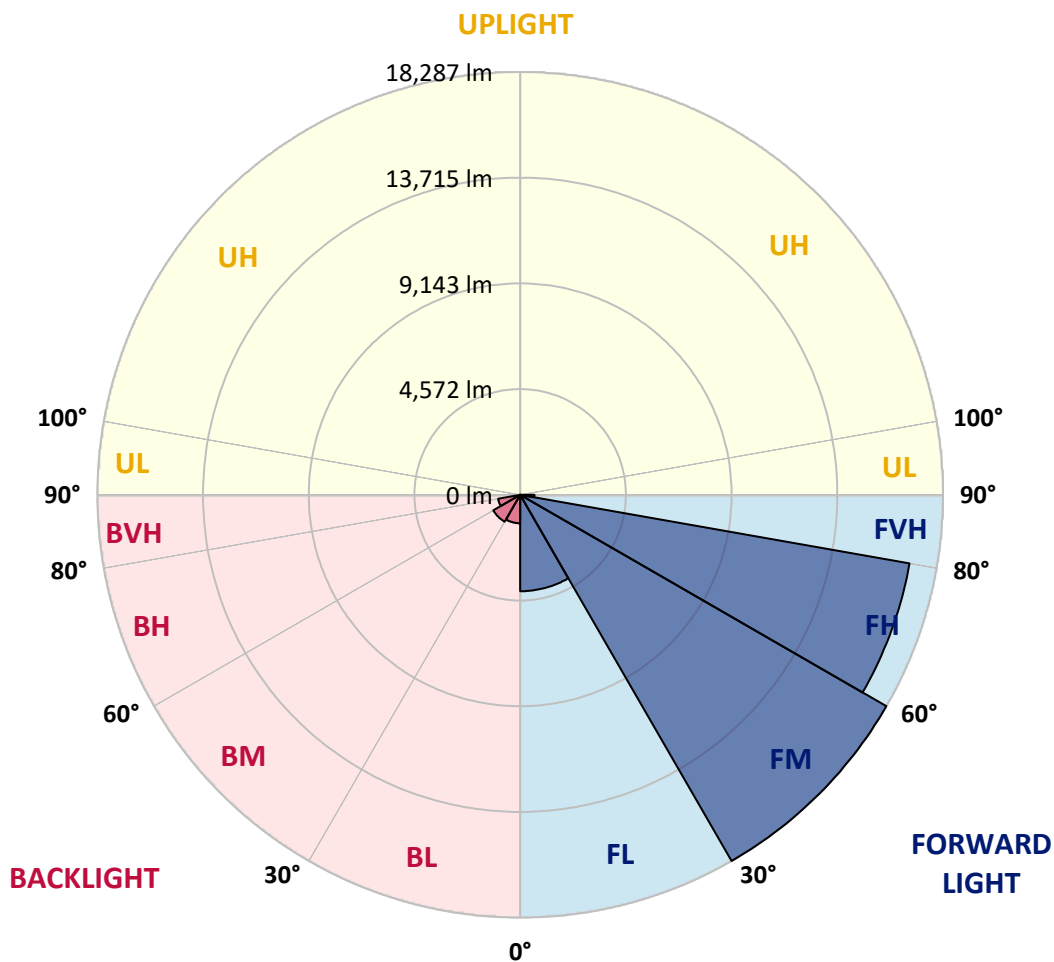
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4169.3	9.5			
FM	(30°-60°)	18287.0	41.8			
FH	(60°-80°)	17097.2	39.1			G5
FVH	(80°-90°)	616.2	1.4			G4/750
BL	(0°-30°)	1232.7	2.8	B3/2500		
BM	(30°-60°)	1341.9	3.1	B2/2500		
BH	(60°-80°)	967.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	19.6	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6
2.5°	12475.5	12470.6	12416.3	12391.5	12346.9	12253.1	12107.0	12030.5	11906.8	11691.6	11402.4
5°	12361.8	12421.1	12453.4	12455.8	12487.9	12453.4	12322.2	12257.9	12087.4	11741.0	11221.7
7.5°	11590.2	11612.5	11703.9	11783.2	11936.5	12082.4	12129.4	12102.1	12000.7	11629.8	10939.9
10°	10764.3	10786.6	10895.5	10999.2	11207.0	11432.0	11669.4	11718.8	11760.9	11471.5	10667.9
12.5°	10052.2	10074.4	10185.7	10321.6	10564.1	10840.9	11209.4	11291.1	11476.6	11320.7	10450.3
15°	9438.9	9448.8	9557.5	9725.7	10015.1	10371.1	10789.1	10920.2	11204.5	11214.4	10259.9
17.5°	8917.1	8941.9	9008.7	9169.3	9485.8	9926.0	10413.2	10601.1	10935.0	11125.4	10074.4
20°	8598.0	8622.8	8620.3	8709.3	8993.8	9463.6	10037.3	10262.3	10667.9	11033.9	9908.8
22.5°	8536.4	8536.4	8471.9	8459.6	8627.9	9021.0	9646.5	9921.2	10428.1	10994.3	9792.6
25°	8756.4	8746.4	8585.7	8454.7	8462.2	8697.0	9268.3	9594.6	10225.2	11021.6	9730.7
27.5°	9221.3	9209.0	9006.1	8756.4	8556.0	8553.7	8981.4	9332.5	10064.5	11150.1	9755.5
30°	9864.2	9859.3	9639.3	9325.1	8961.6	8627.9	8882.5	9201.5	9960.6	11382.6	9812.2
32.5°	10566.6	10559.0	10393.4	10062.0	9602.2	8961.6	8986.4	9253.4	9990.3	11691.6	9950.7
35°	11310.7	11298.4	11226.7	10937.5	10430.5	9577.4	9327.6	9535.2	10178.2	12154.1	10222.8
37.5°	12117.0	12129.4	12181.2	11904.2	11372.6	10440.5	9898.9	10039.7	10556.6	12782.3	10665.4
40°	13306.5	13304.0	13321.2	12957.7	12445.8	11496.2	10697.6	10742.1	11189.6	13615.5	11338.0
42.5°	15465.2	15314.3	14856.9	14115.1	13600.7	12703.0	11703.9	11657.0	11963.6	14646.8	12280.2
45°	18365.8	18044.4	16857.5	15435.5	14777.7	14063.1	12942.9	12792.0	12987.4	15885.5	13442.4
47.5°	20861.0	20527.2	18848.1	16810.4	16026.7	15353.9	14394.5	14122.4	14186.8	17272.9	14916.3
50°	21709.2	21545.9	20079.5	18007.3	17235.8	16978.7	16078.6	15747.1	15655.7	18877.7	16625.0
52.5°	21415.0	21402.6	20425.8	18783.7	18343.6	18660.1	18197.8	17814.5	17478.1	20569.2	18363.4
55°	20942.5	21004.3	20566.8	19463.8	19449.1	20195.8	21095.9	20776.9	19802.5	22406.6	19862.0
57.5°	19639.5	19903.9	20487.6	20749.7	21358.0	22122.1	23509.5	23697.4	22545.0	23813.6	21105.8
60°	15935.0	16516.1	18425.2	20935.2	23818.5	25722.6	26422.4	26583.2	24795.2	24983.2	22784.9
62.5°	11310.7	11904.2	14325.2	18571.1	23855.6	30453.3	30762.3	30131.7	27273.1	26716.8	25680.6
65°	6004.1	6461.6	8439.8	13405.3	20682.9	31551.1	38351.5	36472.2	31645.1	30126.7	29421.9
67.5°	3071.2	3209.7	3996.1	6560.5	14218.9	28024.9	45154.4	46477.2	39179.8	33509.7	29241.4
69°	2717.6	2799.3	3321.0	4743.0	9105.0	23737.0	45485.7	49912.0	43124.2	33227.8	26573.3
70°	2631.1	2702.8	3177.7	4292.9	7116.9	19906.5	44217.1	49610.3	44133.0	32154.6	24580.1
72.5°	2232.9	2294.8	2828.9	3793.4	5783.9	9881.5	35918.2	42038.5	39602.8	26785.9	17792.2
75°	1493.6	1696.4	2715.1	3556.0	5380.9	5613.4	23680.0	30379.1	28220.3	18066.7	9268.3
77.5°	358.6	385.7	766.6	2828.9	4920.9	4940.8	12178.9	18885.2	15403.3	6439.3	2191.0
80°	192.9	185.5	215.1	561.4	4582.3	4636.6	5482.4	9166.8	5499.7	1068.3	722.1
82.5°	136.1	128.5	138.5	234.9	1441.7	4223.7	3966.5	4149.5	2280.0	410.4	324.0
85°	49.4	47.0	76.6	212.7	452.6	2428.4	4075.3	3422.5	1847.3	187.9	237.4
87.5°	17.2	14.8	29.6	116.2	138.5	1033.7	2514.8	2586.6	727.0	113.7	111.3
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°	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6	11382.6
2.5°	11281.2	11127.8	10846.0	10556.6	10289.5	9968.1	9807.3	9649.1	9582.3	9557.5	9441.4
5°	10954.7	10695.1	10096.7	9495.8	8941.9	8353.2	7965.0	7653.5	7470.5	7381.5	7240.5
7.5°	10536.8	10111.5	9203.9	8276.7	7413.6	6562.9	5932.3	5447.7	5113.8	4953.2	4807.2
10°	10131.3	9565.1	8274.2	7010.6	5838.4	4710.8	3840.3	3209.7	2806.7	2621.3	2502.5
12.5°	9767.8	9033.4	7376.5	5776.6	4305.2	2984.8	2099.5	1597.5	1347.6	1261.2	1219.1
15°	9443.8	8543.7	6528.3	4604.4	2915.4	1706.3	1147.5	976.7	937.2	937.2	932.4
17.5°	9137.2	8063.9	5709.8	3504.0	1829.8	1043.6	873.0	850.7	850.7	860.5	860.5
20°	8842.9	7606.5	4918.5	2514.8	1152.3	828.3	788.8	784.0	788.8	801.2	801.2
22.5°	8590.8	7191.0	4179.2	1726.1	855.6	746.9	727.0	719.6	722.1	729.6	734.5
25°	8402.7	6840.0	3481.8	1169.7	736.9	680.0	657.7	645.4	635.6	635.6	640.5
27.5°	8284.1	6543.2	2806.7	850.7	662.7	618.3	583.5	563.7	541.6	529.2	534.1
30°	8197.6	6261.2	2173.7	694.8	593.5	549.0	504.5	472.2	440.2	425.3	430.3
32.5°	8165.4	6033.7	1624.7	613.3	531.6	482.2	427.9	385.7	351.1	338.8	341.3
35°	8251.9	5853.3	1189.4	554.0	482.2	420.3	358.6	311.6	284.4	276.9	279.5
37.5°	8479.5	5756.8	890.2	504.5	437.7	368.5	299.2	254.7	237.4	237.4	239.8
40°	8909.7	5754.4	714.6	469.9	398.0	319.0	247.4	215.1	205.3	210.3	212.7
42.5°	9537.8	5885.3	623.2	437.7	363.5	271.9	205.3	183.0	180.5	185.5	187.9
45°	10395.8	6125.3	573.7	410.4	326.4	227.5	173.2	158.2	158.2	165.6	168.2
47.5°	11446.8	6476.4	531.6	383.2	289.3	190.4	148.4	138.5	140.9	148.4	150.8
50°	12713.0	6919.0	489.7	353.7	262.1	158.2	128.5	121.2	123.6	133.6	136.1
52.5°	14154.7	7515.0	455.0	326.4	227.5	131.1	108.9	103.8	108.9	118.7	121.2
55°	15391.0	8049.2	413.0	304.2	183.0	108.9	89.0	89.0	94.0	106.3	108.9
57.5°	16580.5	8608.0	375.9	262.1	143.4	86.5	74.2	76.6	84.1	96.5	99.0
60°	18326.3	9555.1	331.4	220.1	108.9	69.2	61.9	64.3	74.2	86.5	89.0
62.5°	21291.3	10996.8	286.9	183.0	84.1	54.3	49.4	54.3	66.7	81.6	84.1
65°	23966.9	11582.8	234.9	153.3	64.3	42.0	42.0	49.4	64.3	79.1	81.6
67.5°	22475.8	9750.5	183.0	121.2	49.4	32.2	34.7	47.0	61.9	79.1	81.6
69°	19876.7	7972.5	155.8	96.5	42.0	29.6	32.2	47.0	61.9	76.6	79.1
70°	17851.6	6731.1	138.5	81.6	37.1	29.6	32.2	44.6	61.9	76.6	79.1
72.5°	11956.3	3635.1	111.3	59.4	34.7	27.2	27.2	44.6	59.4	74.2	76.6
75°	5138.6	1003.9	89.0	42.0	29.6	24.8	24.8	42.0	56.9	71.8	76.6
77.5°	939.6	254.7	71.8	37.1	29.6	24.8	22.3	39.5	54.3	69.2	71.8
80°	373.3	126.1	56.9	32.2	27.2	22.3	19.9	37.1	51.9	66.7	69.2
82.5°	225.0	71.8	47.0	29.6	27.2	19.9	17.2	32.2	49.4	64.3	66.7
85°	183.0	49.4	37.1	29.6	24.8	19.9	14.8	29.6	44.6	61.9	64.3
87.5°	89.0	34.7	34.7	27.2	24.8	19.9	14.8	27.2	42.0	59.4	61.9
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)