

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: P382634

Luminaire Tested: **GLEON-SA0B-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA 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: 45015.2 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

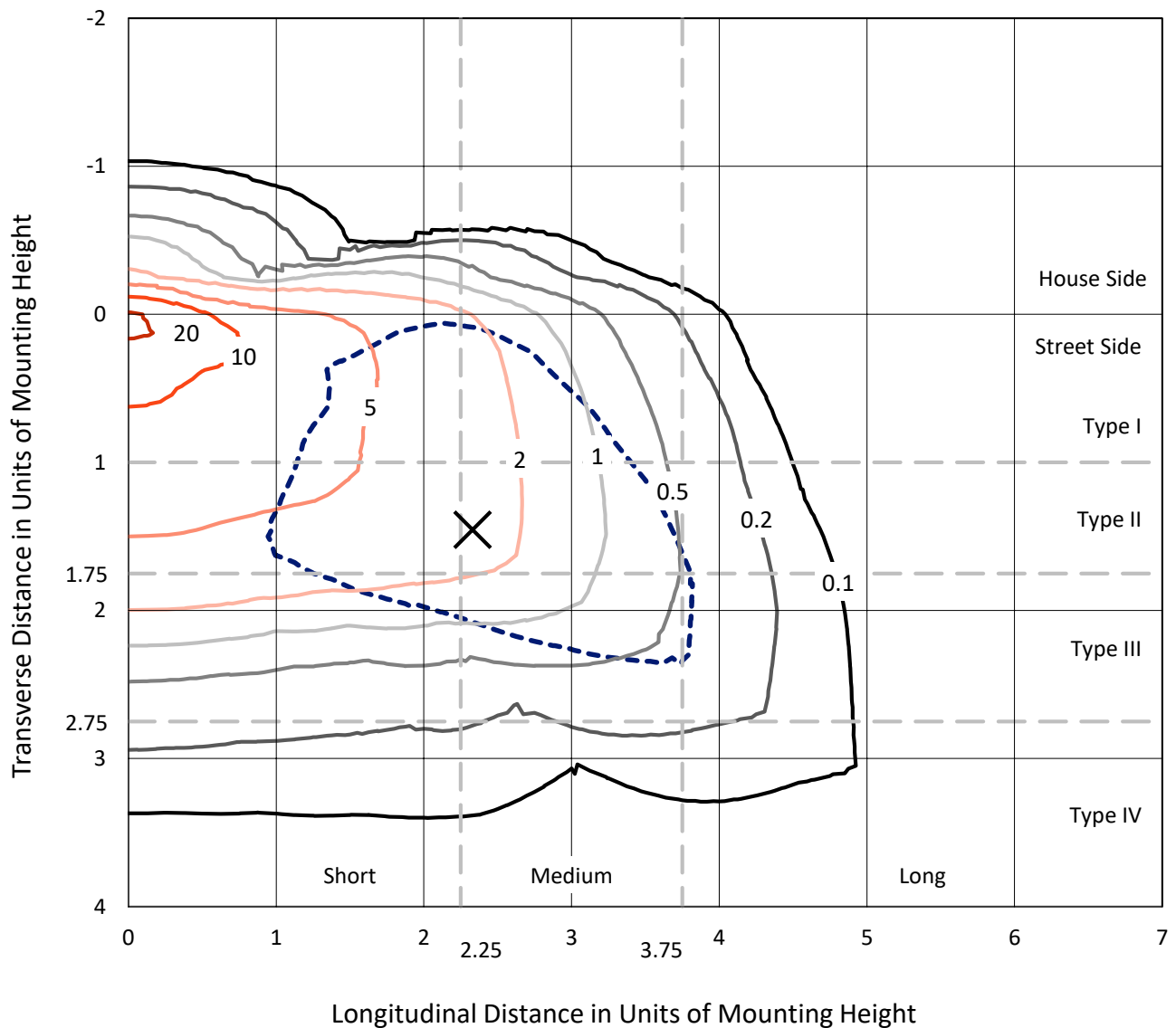
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

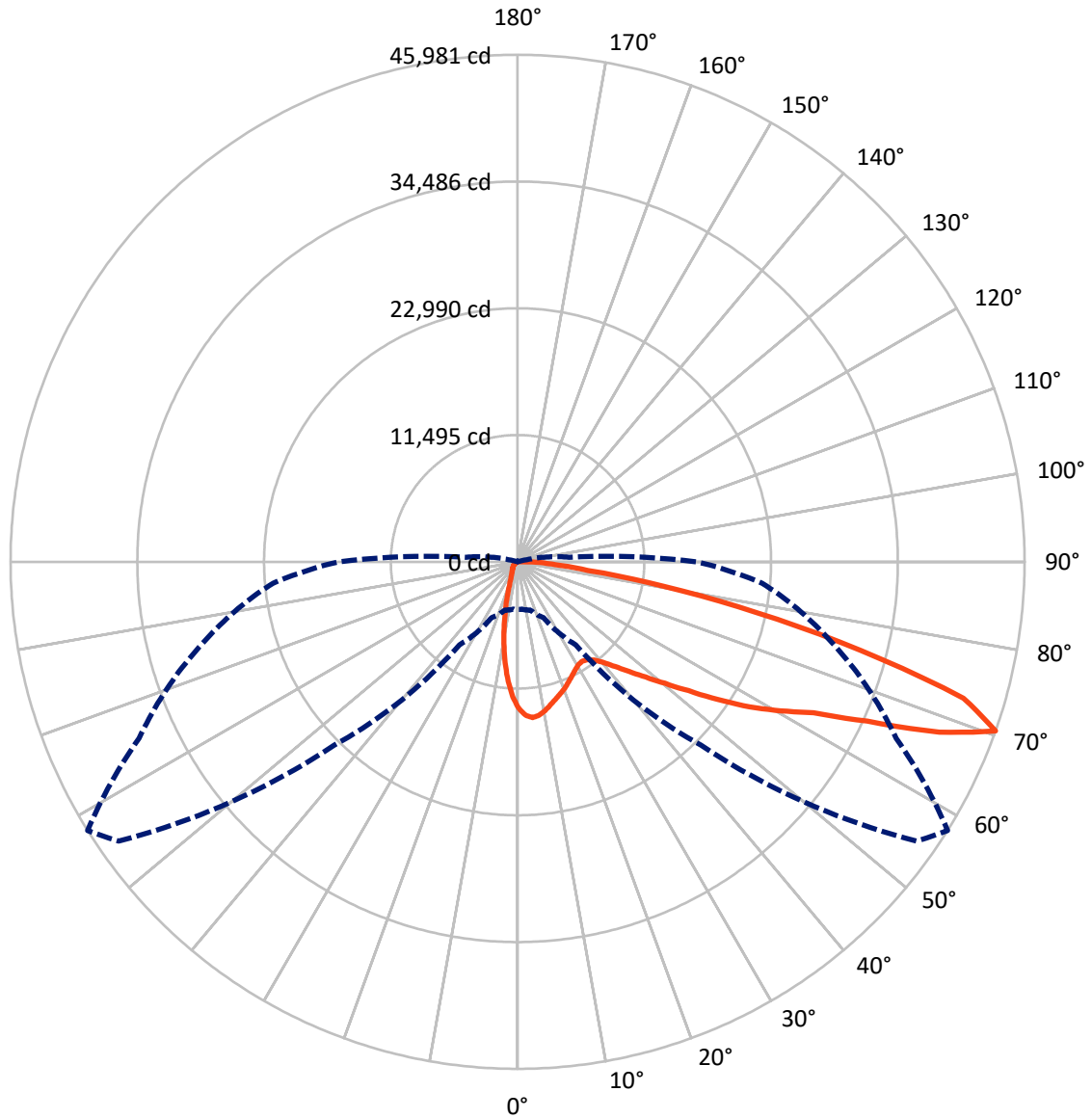
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3852.3	0.0	3852.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	41162.9	0.0	41162.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	45015.2	0.0	45015.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.4	2.4
10°-20°	2282.2	5.1
20°-30°	3000.2	6.7
30°-40°	3973.5	8.8
40°-50°	5939.1	13.2
50°-60°	9514.2	21.1
60°-70°	11992.6	26.6
70°-80°	6468.8	14.4
80°-90°	757.2	1.7
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°	45015.2	100.0
0°-180°	45015.2	100.0

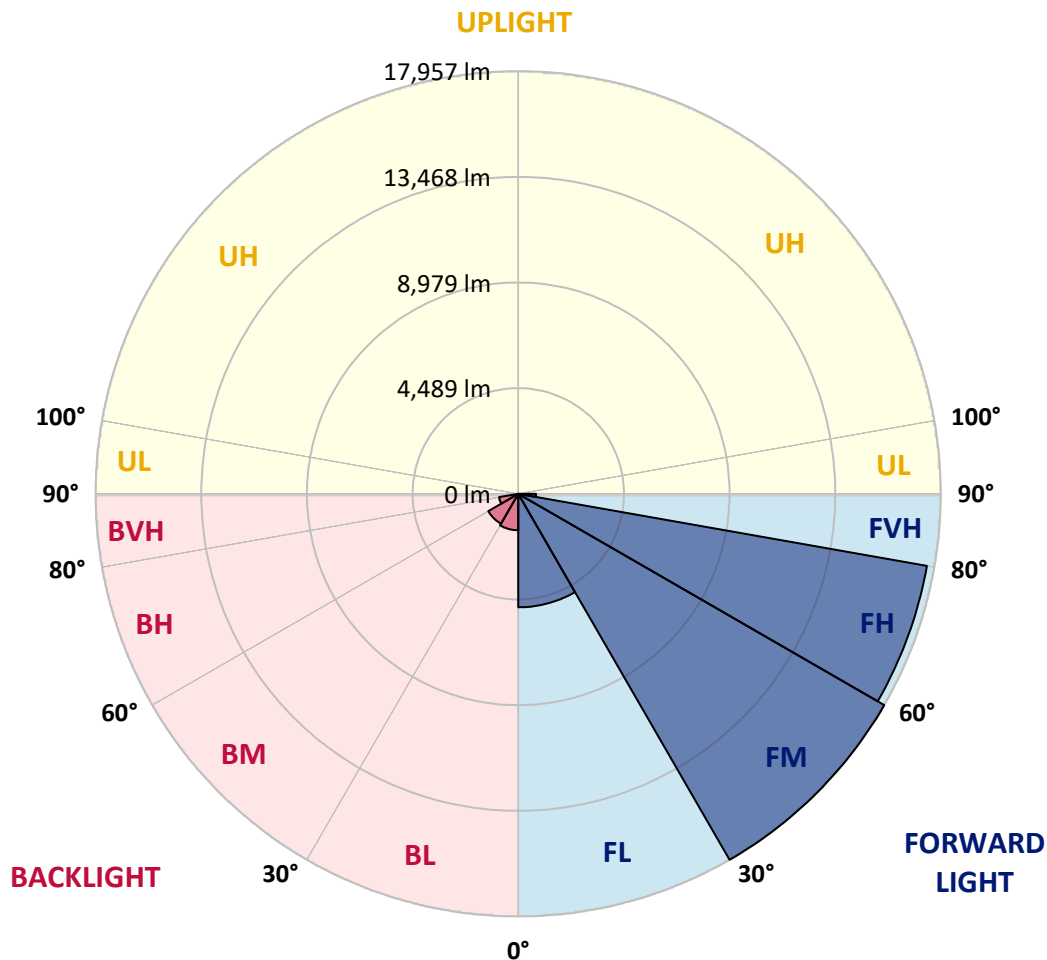


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4822.1	10.7			
FM (30°-60°)	17957.2	39.9			
FH (60°-80°)	17632.9	39.2			G5
FVH (80°-90°)	750.7	1.7			G5
BL (0°-30°)	1547.7	3.4	B3/2500		
BM (30°-60°)	1469.6	3.3	B2/2500		
BH (60°-80°)	828.5	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.5	0.0			G0/10
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°	58°	65°	75°	85°
0°	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3
2.5°	14399.8	14364.2	14351.0	14328.6	14242.5	14158.3	13991.8	13944.9	13840.1	13591.2	13327.2
5°	14410.9	14409.1	14448.4	14439.1	14409.1	14369.8	14250.0	14188.2	14010.4	13654.8	13171.9
7.5°	13716.6	13752.2	13840.1	13911.3	13993.6	14100.3	14115.3	14055.4	13909.3	13525.6	12885.4
10°	12784.4	12840.5	12964.1	13104.5	13319.7	13533.2	13724.0	13716.6	13666.0	13287.9	12541.1
12.5°	11850.4	11915.9	12058.1	12265.9	12571.0	12919.2	13259.8	13306.6	13390.9	13074.6	12222.8
15°	11032.4	11088.6	11229.0	11483.5	11861.6	12329.6	12829.3	12915.4	13132.6	12907.9	11957.1
17.5°	10337.9	10373.5	10476.5	10759.1	11197.1	11764.2	12413.8	12582.2	12906.0	12776.9	11726.8
20°	9853.2	9858.8	9926.2	10124.5	10562.5	11197.1	11983.2	12224.7	12666.4	12664.6	11489.1
22.5°	9613.6	9594.8	9608.0	9722.1	10044.0	10656.2	11552.8	11839.1	12451.3	12569.2	11247.7
25°	9568.7	9553.7	9516.2	9531.2	9725.9	10182.6	11118.5	11449.8	12262.1	12511.2	11038.0
27.5°	9709.1	9724.0	9660.3	9593.0	9608.0	9875.6	10732.9	11116.6	12108.7	12511.2	10890.2
30°	9991.7	9999.1	9952.4	9864.3	9746.5	9789.5	10465.2	10849.0	12032.0	12597.2	10796.5
32.5°	10304.2	10345.4	10339.8	10268.7	10100.2	9926.2	10401.6	10751.6	12026.3	12788.1	10787.2
35°	10691.7	10738.5	10817.1	10802.1	10626.3	10339.8	10618.7	10893.9	12136.8	13102.6	10888.3
37.5°	11103.5	11174.7	11343.1	11423.6	11309.5	10985.6	11105.4	11301.9	12432.5	13611.8	11144.7
40°	11502.2	11582.7	11889.7	12206.0	12119.9	11786.7	11842.9	12000.1	12958.5	14343.6	11631.4
42.5°	11893.4	12013.2	12464.3	12984.7	13087.6	12821.8	12851.8	12977.2	13739.0	15350.6	12426.8
45°	12361.4	12496.2	13164.4	13806.4	14081.6	13965.5	14092.8	14175.2	14759.2	16681.5	13499.4
47.5°	13048.3	13203.7	14023.5	14755.4	15238.3	15313.2	15569.6	15623.9	16048.8	18231.3	14897.7
50°	14388.5	14431.5	15172.8	15837.3	16533.6	16982.9	17274.8	17316.0	17609.9	19925.3	16644.1
52.5°	16075.1	16103.1	16522.4	16967.9	17759.7	18676.8	19360.1	19418.0	19479.9	21576.2	18368.0
55°	17750.3	17746.5	18023.6	18285.6	19191.6	20524.3	22006.8	22042.3	21598.7	23142.9	19685.7
57.5°	18796.6	18897.7	19318.8	19655.7	20921.1	22630.1	24687.1	24818.2	23824.2	24303.4	20988.5
60°	18463.5	18512.1	19446.1	20692.7	23075.6	25623.1	27399.4	27433.1	25497.7	25462.1	22635.7
62.5°	15730.6	15756.8	17224.3	19794.3	24166.9	29505.2	30671.3	30122.9	27421.9	27069.9	24606.6
65°	10781.5	10951.9	12177.9	15354.4	22162.1	31940.4	35736.4	34828.6	30354.9	29387.3	26388.6
67.5°	6349.1	6313.6	6920.0	9259.8	16277.2	30323.2	42143.6	41241.4	34355.0	30939.0	25866.4
70°	4337.0	4312.6	4544.7	5606.1	9188.7	23522.9	44159.5	45980.8	37887.1	29894.5	22261.3
72.5°	3096.0	3109.0	3451.6	4355.6	5768.9	13705.3	37975.1	42285.8	36780.9	26061.1	16921.1
75°	2102.0	2137.6	2628.0	3573.2	5057.6	6972.4	26948.3	32144.4	29950.7	18940.8	9725.9
77.5°	1130.5	1169.8	1748.2	2878.9	4572.8	4844.2	17334.7	22122.8	18813.4	8514.8	2819.0
80°	471.7	494.2	818.0	2092.6	3951.3	4254.6	10199.4	13415.2	8016.9	1679.0	628.9
82.5°	204.0	215.3	340.7	1248.5	2953.7	3592.0	5400.2	6453.9	2429.6	368.7	316.4
85°	39.3	41.2	140.4	660.7	1884.9	2027.1	3500.3	3431.0	1091.2	159.1	230.2
87.5°	0.0	0.0	33.7	207.7	554.1	1104.3	2135.8	2109.5	370.7	76.8	86.1
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°	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3	13297.3
2.5°	13192.5	13063.3	12791.9	12456.8	12200.4	11917.8	11693.2	11408.7	11285.0	11290.7	11223.3
5°	12896.7	12630.9	12030.1	11272.0	10688.0	10085.2	9566.8	9050.2	8745.1	8645.9	8552.3
7.5°	12473.7	12052.5	11094.2	9926.2	8937.8	7972.0	7131.6	6392.2	5924.3	5695.9	5611.6
10°	11996.4	11404.8	10017.9	8479.2	7067.9	5761.4	4672.0	3724.9	3346.8	3090.3	3024.8
12.5°	11577.1	10776.0	8966.0	6994.9	5319.7	3743.6	2704.7	2115.2	1858.7	1757.6	1740.8
15°	11182.1	10188.2	7953.3	5651.0	3683.7	2304.2	1720.2	1519.9	1460.0	1443.2	1443.2
17.5°	10809.7	9628.6	6963.1	4327.6	2437.1	1615.4	1424.4	1379.5	1360.8	1358.9	1360.8
20°	10420.3	9068.9	5989.8	3170.8	1701.5	1368.3	1315.9	1291.5	1285.9	1285.9	1285.9
22.5°	10047.9	8509.2	5042.7	2264.9	1364.5	1248.5	1222.3	1205.4	1199.8	1198.0	1194.2
25°	9690.3	7977.6	4118.0	1600.4	1198.0	1143.7	1121.2	1098.8	1081.9	1072.6	1066.9
27.5°	9396.4	7504.1	3257.0	1284.0	1081.9	1035.1	1007.0	973.4	932.2	913.5	905.9
30°	9162.4	7071.7	2510.1	1083.8	973.4	926.5	883.5	825.4	765.5	733.8	731.9
32.5°	8979.0	6646.8	1905.5	958.4	876.0	818.0	756.2	683.2	614.0	578.4	576.5
35°	8889.2	6272.4	1456.3	866.6	789.9	716.9	640.2	559.7	492.3	458.6	454.9
37.5°	8949.1	5956.0	1136.2	789.9	716.9	632.7	542.8	458.6	398.7	368.7	366.8
40°	9168.1	5753.9	922.8	724.4	655.2	552.2	454.9	376.3	325.7	301.4	299.5
42.5°	9634.2	5679.1	788.0	670.1	595.3	477.3	378.1	310.8	263.9	247.0	243.3
45°	10412.8	5789.5	696.3	617.7	533.5	406.2	312.6	254.6	213.4	200.3	198.4
47.5°	11449.8	6079.7	630.8	567.1	477.3	342.5	260.2	205.9	174.1	161.0	159.1
50°	12786.2	6540.1	576.5	516.6	424.9	290.1	215.3	162.8	134.8	125.4	125.4
52.5°	14240.7	7088.5	527.8	469.8	372.5	241.5	174.1	125.4	106.7	95.5	95.5
55°	15442.4	7567.7	475.5	434.3	308.8	200.3	132.9	95.5	78.6	73.0	73.0
57.5°	16642.2	8078.7	415.6	372.5	247.0	162.8	101.1	71.2	58.0	54.3	54.3
60°	18197.7	8703.9	357.5	303.2	194.7	123.5	74.9	50.6	43.0	41.2	41.2
62.5°	19908.5	9070.8	305.1	243.3	151.7	91.8	54.3	33.7	31.9	31.9	29.9
65°	20954.8	8552.3	256.5	194.7	117.9	69.2	35.6	24.3	28.0	26.2	22.5
67.5°	19620.3	6695.4	209.6	151.7	91.8	52.4	22.5	16.9	29.9	24.3	18.7
70°	16245.4	4687.0	162.8	106.7	73.0	44.9	15.0	11.3	31.9	24.3	15.0
72.5°	12157.3	3137.2	129.1	71.2	54.3	39.3	13.1	5.6	28.0	20.6	13.1
75°	6643.1	1263.5	102.9	44.9	33.7	28.0	9.3	3.7	18.7	15.0	9.3
77.5°	1748.2	333.2	74.9	29.9	18.7	11.3	5.6	1.9	9.3	7.5	3.7
80°	445.5	129.1	48.6	20.6	13.1	5.6	0.0	0.0	1.9	0.0	0.0
82.5°	237.7	54.3	29.9	15.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	179.7	35.6	16.9	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	69.2	11.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)