

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: STREETWORKS

Report Number: P324891

Luminaire Tested: **GAN-SA7C-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40954 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

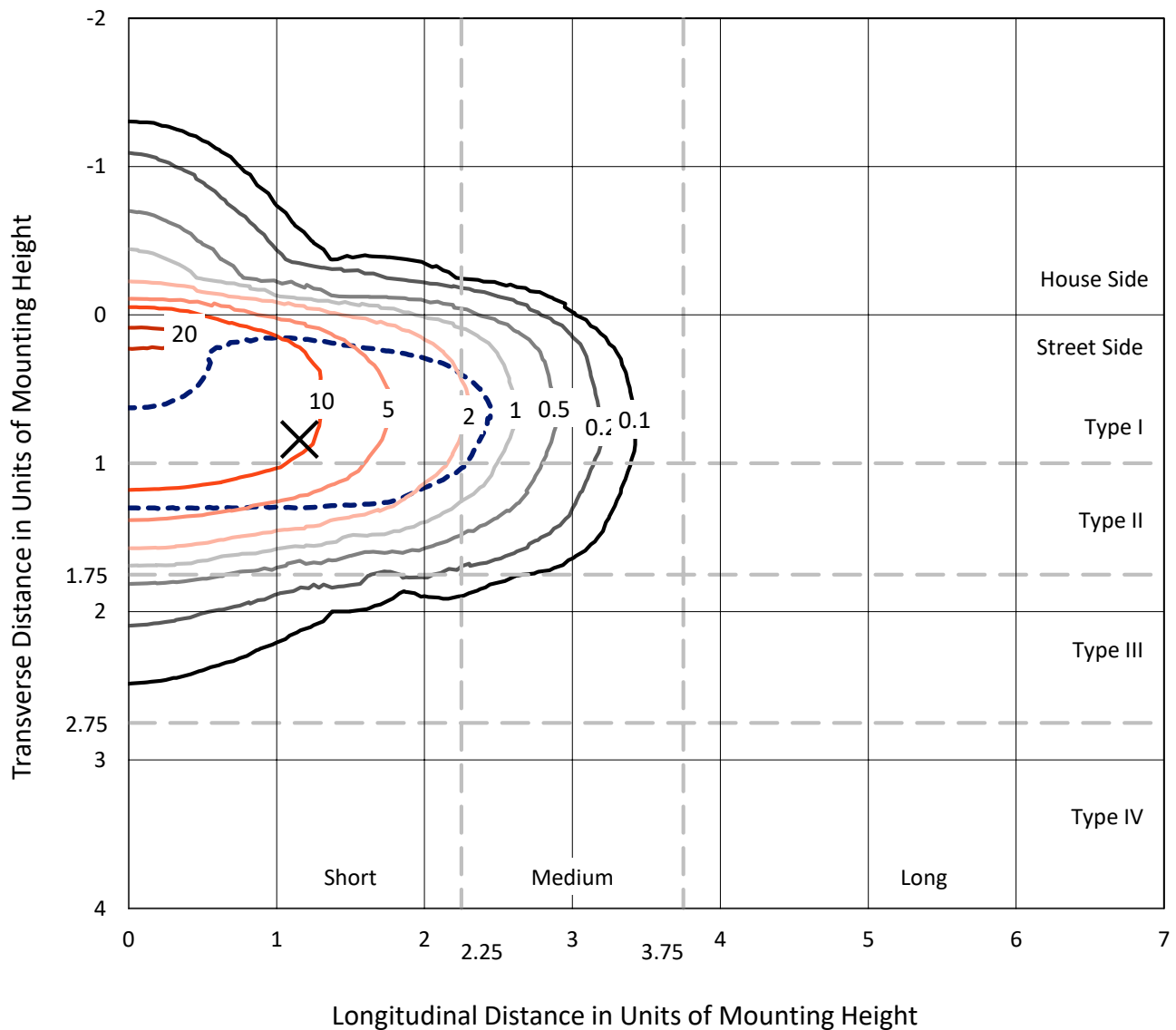
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

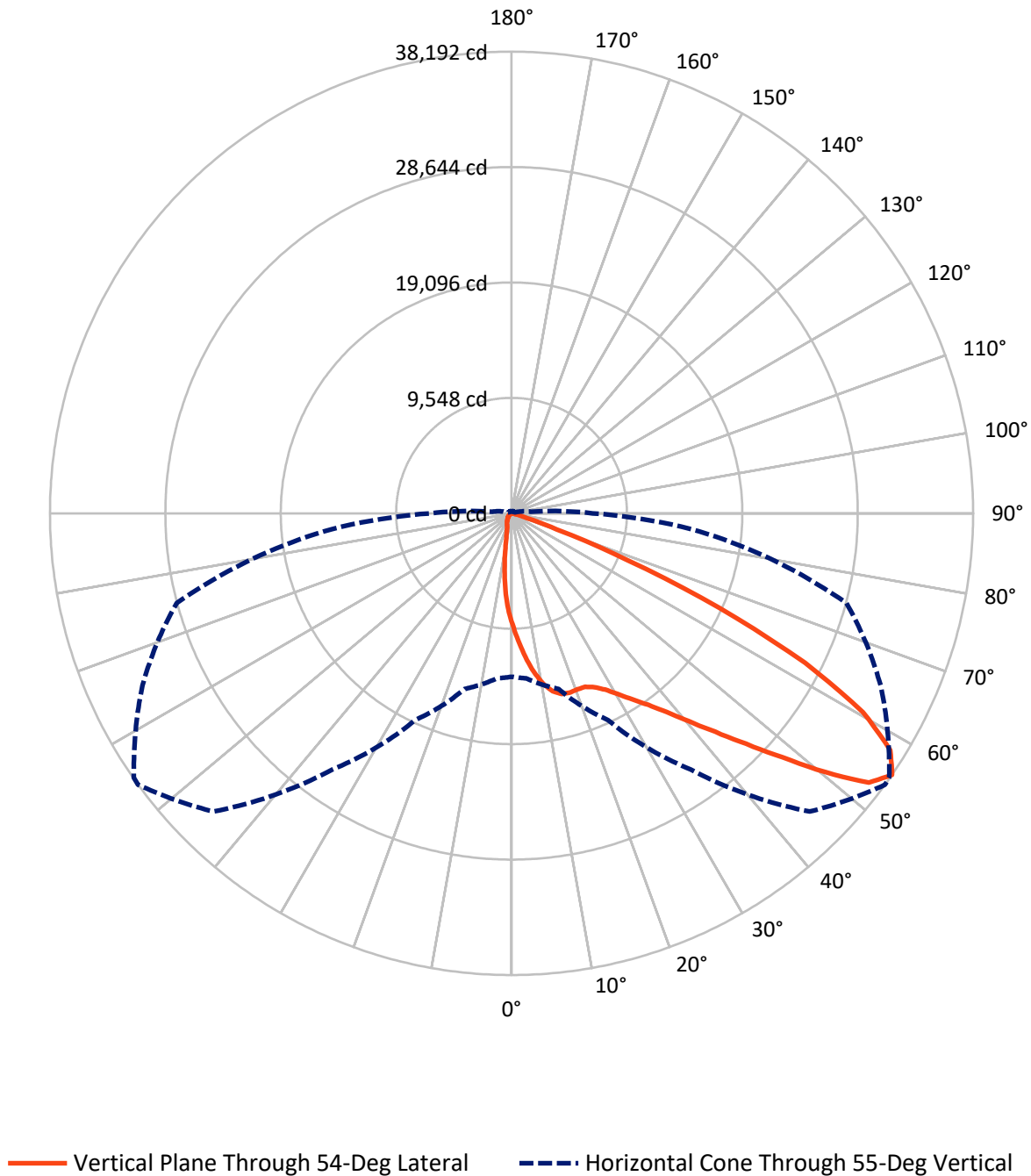
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2043.3	0.0	2043.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	38910.7	0.0	38910.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	40954.0	0.0	40954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.6	2.1
10°-20°	2316.5	5.7
20°-30°	3955.0	9.7
30°-40°	6347.0	15.5
40°-50°	10142.6	24.8
50°-60°	10868.1	26.5
60°-70°	5580.0	13.6
70°-80°	845.2	2.1
80°-90°	55.0	0.1
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°	40954.0	100.0
0°-180°	40954.0	100.0

Coefficient of Utilization



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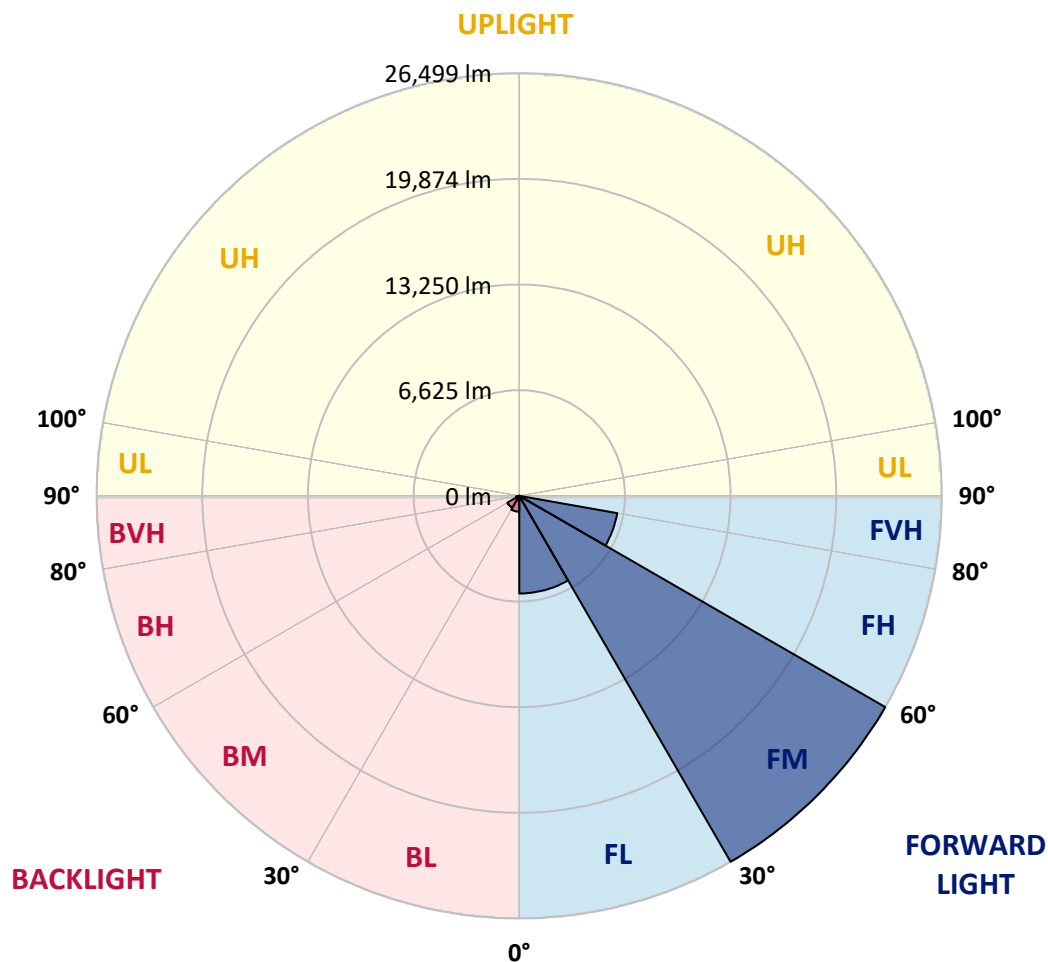
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6121.9	14.9			
FM	(30°-60°)	26499.0	64.7			
FH	(60°-80°)	6236.9	15.2			G3/7500
FVH	(80°-90°)	52.8	0.1			G1/100
BL	(0°-30°)	994.1	2.4	B2/1000		
BM	(30°-60°)	858.6	2.1	B1/1000		
BH	(60°-80°)	188.3	0.5	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1
2.5°	11510.2	11338.6	11343.9	11266.1	10981.3	10758.5	10526.8	10472.0	10111.2	9732.7	9368.4
5°	13499.9	13374.3	13344.2	13193.9	12797.7	12378.6	11929.3	11825.0	11119.3	10344.6	9582.4
7.5°	14522.1	14523.9	14499.1	14444.3	14196.7	13789.9	13241.6	13132.0	12171.6	11009.6	9805.2
10°	14225.0	14292.2	14430.2	14612.3	14801.6	14750.3	14338.2	14239.1	13195.7	11713.6	10052.8
12.5°	13531.7	13540.5	13694.4	13993.3	14538.0	15096.9	15104.0	15070.4	14173.7	12449.3	10325.2
15°	13186.8	13220.4	13277.0	13469.8	13986.2	14881.2	15521.4	15569.1	15070.4	13231.0	10615.2
17.5°	13413.2	13461.0	13413.2	13436.2	13735.1	14539.8	15593.9	15715.9	15853.9	14003.9	10889.4
20°	14026.9	14071.1	13986.2	13892.5	13950.9	14440.8	15542.6	15707.1	16467.6	14690.1	11119.3
22.5°	14854.6	14872.3	14743.2	14589.3	14546.9	14776.8	15585.1	15754.8	16959.3	15310.9	11264.3
25°	15765.5	15781.4	15620.4	15443.6	15342.8	15436.5	15933.5	16060.8	17392.6	15903.4	11347.5
27.5°	16757.7	16771.8	16570.2	16352.6	16235.9	16239.4	16508.3	16644.5	17854.2	16579.0	11414.7
30°	17806.4	17799.4	17613.7	17311.2	17162.7	17159.1	17336.0	17473.9	18522.7	17445.6	11506.6
32.5°	18984.3	18970.2	18706.7	18331.7	18163.7	18188.5	18345.9	18425.5	19352.2	18368.9	11671.1
35°	20535.4	20494.7	20096.8	19631.7	19322.2	19313.3	19446.0	19509.6	20409.9	19486.6	11945.2
37.5°	22548.1	22511.0	21971.5	21295.9	20860.8	20698.1	20855.5	20936.9	21918.5	20921.0	12385.6
40°	24532.5	24495.4	24175.2	23556.2	22885.9	22495.1	22618.9	22705.5	23802.1	22661.3	12941.0
42.5°	25901.4	25933.2	26044.7	26096.0	25468.1	24647.5	24704.1	24794.3	25781.1	24521.9	13575.9
45°	26262.2	26331.2	26960.8	28197.1	28432.3	27792.1	27199.6	27249.1	27792.1	26382.5	14210.8
47.5°	25178.0	25305.4	26520.4	28819.6	30811.1	31263.9	30142.6	30077.1	29721.6	27887.6	14661.8
50°	22714.4	22831.1	24405.2	27806.2	31532.7	34578.2	33669.2	33476.4	31414.2	28787.8	14821.0
52.5°	19148.8	19290.3	20569.0	24615.6	30172.6	36056.8	37008.3	36847.4	32655.8	28858.5	14847.5
55°	13522.9	13694.4	15047.4	18865.8	25862.5	34880.7	38191.5	38143.8	33686.9	28671.1	14904.1
57.5°	7599.8	7723.6	9182.7	12093.8	18941.9	30381.3	36955.3	37271.9	34309.4	28345.6	14989.0
60°	3374.5	3408.1	4163.3	6020.4	11089.2	23218.4	33416.3	33950.4	33775.3	27910.6	15132.3
62.5°	1871.2	1842.9	1842.9	2502.6	4819.5	14373.6	27249.1	28131.6	31495.5	27395.9	15139.4
65°	1466.2	1439.7	1363.6	1374.2	1835.8	6379.4	18869.4	20438.1	27166.0	25887.3	14630.0
67.5°	1243.3	1220.3	1144.3	1114.2	1140.8	2104.7	10367.6	11996.5	20613.2	21966.2	12672.1
70°	1050.6	1034.6	995.7	958.6	891.4	1039.9	3967.0	5074.2	12702.2	14612.3	8650.3
72.5°	845.4	838.3	852.5	820.6	739.3	693.3	1356.5	1643.0	5705.6	6520.9	3563.8
75°	728.7	725.1	732.2	700.4	608.4	482.8	689.8	753.4	1609.4	1595.3	721.6
77.5°	474.0	479.3	606.6	592.5	523.5	321.9	357.3	385.6	488.1	366.1	219.3
80°	302.4	298.9	307.7	491.7	470.5	245.8	178.6	187.5	235.2	180.4	106.1
82.5°	183.9	180.4	201.6	229.9	237.0	171.6	109.7	111.4	146.8	116.7	56.6
85°	15.9	21.2	122.0	113.2	81.4	53.1	53.1	56.6	77.8	69.0	31.8
87.5°	0.0	0.0	21.2	31.8	17.7	19.5	19.5	21.2	30.1	30.1	15.9
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°	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1	9172.1
2.5°	9179.1	8995.2	8623.8	8266.5	7964.1	7672.3	7339.8	7010.8	6856.9	6795.0	6731.4
5°	9195.0	8816.6	8050.7	7279.6	6480.2	5760.4	5146.7	4517.1	4202.2	4064.3	4000.6
7.5°	9216.3	8639.7	7401.7	6107.0	4819.5	3843.2	2990.7	2442.5	2205.5	2168.3	2076.4
10°	9219.8	8425.7	6648.2	4812.4	3231.3	2316.9	1782.8	1499.8	1395.4	1377.8	1347.7
12.5°	9226.9	8172.8	5811.7	3563.8	2154.2	1549.3	1289.3	1195.6	1167.3	1165.5	1165.5
15°	9248.1	7907.5	4943.3	2568.0	1547.5	1227.4	1131.9	1094.8	1084.2	1089.5	1087.7
17.5°	9248.1	7594.4	4090.8	1913.6	1250.4	1103.6	1050.6	1025.8	1022.3	1027.6	1029.3
20°	9180.9	7214.2	3309.1	1489.2	1108.9	1024.0	976.3	953.3	944.4	948.0	949.7
22.5°	9020.0	6747.3	2672.4	1232.7	1015.2	951.5	900.2	864.9	850.7	852.5	852.5
25°	8768.8	6193.7	2090.5	1066.5	939.1	873.7	813.6	772.9	764.0	762.3	765.8
27.5°	8446.9	5581.8	1664.3	939.1	848.9	787.0	726.9	693.3	686.2	688.0	689.8
30°	8130.3	4946.8	1312.3	831.3	748.1	689.8	643.8	627.9	627.9	633.2	634.9
32.5°	7840.3	4336.7	1038.2	737.5	657.9	604.9	578.3	576.6	585.4	588.9	590.7
35°	7590.9	3772.5	859.5	665.0	587.2	541.2	532.4	539.4	550.0	557.1	558.9
37.5°	7414.0	3268.4	751.7	604.9	532.4	495.2	493.4	507.6	521.7	537.7	541.2
40°	7339.8	2842.2	677.4	551.8	488.1	459.8	454.5	474.0	500.5	523.5	527.0
42.5°	7277.9	2493.8	613.7	500.5	452.8	412.1	410.3	435.1	466.9	489.9	495.2
45°	7224.8	2214.3	555.3	445.7	406.8	353.7	359.0	390.9	415.6	440.4	445.7
47.5°	7115.1	1984.4	491.7	387.3	336.0	302.4	313.0	341.3	360.8	397.9	403.2
50°	6918.8	1796.9	426.2	316.6	274.1	261.8	277.7	297.1	321.9	353.7	357.3
52.5°	6786.2	1655.4	369.6	265.3	226.4	229.9	245.8	252.9	267.1	279.4	275.9
55°	6710.1	1577.6	323.7	229.9	192.8	203.4	206.9	198.1	191.0	178.6	173.3
57.5°	6701.3	1506.9	288.3	199.9	169.8	175.1	162.7	132.6	107.9	93.7	90.2
60°	6687.1	1420.2	260.0	168.0	150.3	143.3	116.7	72.5	51.3	47.8	47.8
62.5°	6533.3	1285.8	238.8	141.5	127.3	107.9	67.2	33.6	28.3	30.1	30.1
65°	6043.4	1098.3	217.5	115.0	100.8	77.8	33.6	19.5	10.6	12.4	12.4
67.5°	5137.8	875.5	194.5	88.4	76.1	49.5	19.5	8.8	0.0	0.0	0.0
70°	3440.0	543.0	164.5	61.9	49.5	30.1	14.1	1.8	0.0	0.0	0.0
72.5°	1319.4	293.6	132.6	37.1	31.8	21.2	8.8	0.0	0.0	0.0	0.0
75°	297.1	192.8	92.0	26.5	23.0	14.1	3.5	0.0	0.0	0.0	0.0
77.5°	113.2	139.7	53.1	17.7	15.9	8.8	0.0	0.0	0.0	0.0	0.0
80°	54.8	83.1	24.8	10.6	8.8	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	28.3	31.8	10.6	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	15.9	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	5.3	1.8	1.8	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)