

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: P324751

Luminaire Tested: **GAN-SA7A-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324751
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-SA7A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 24573 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

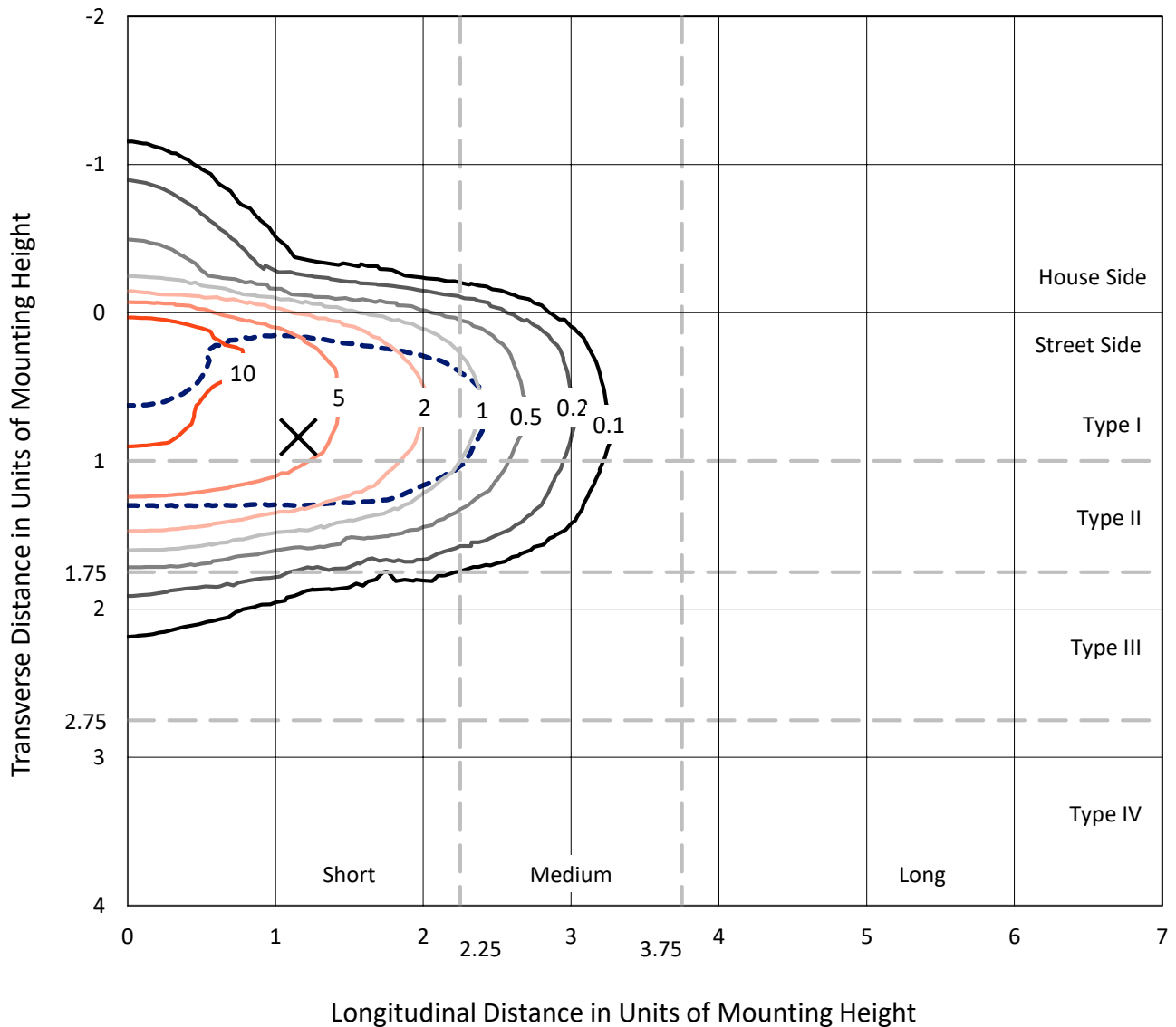
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

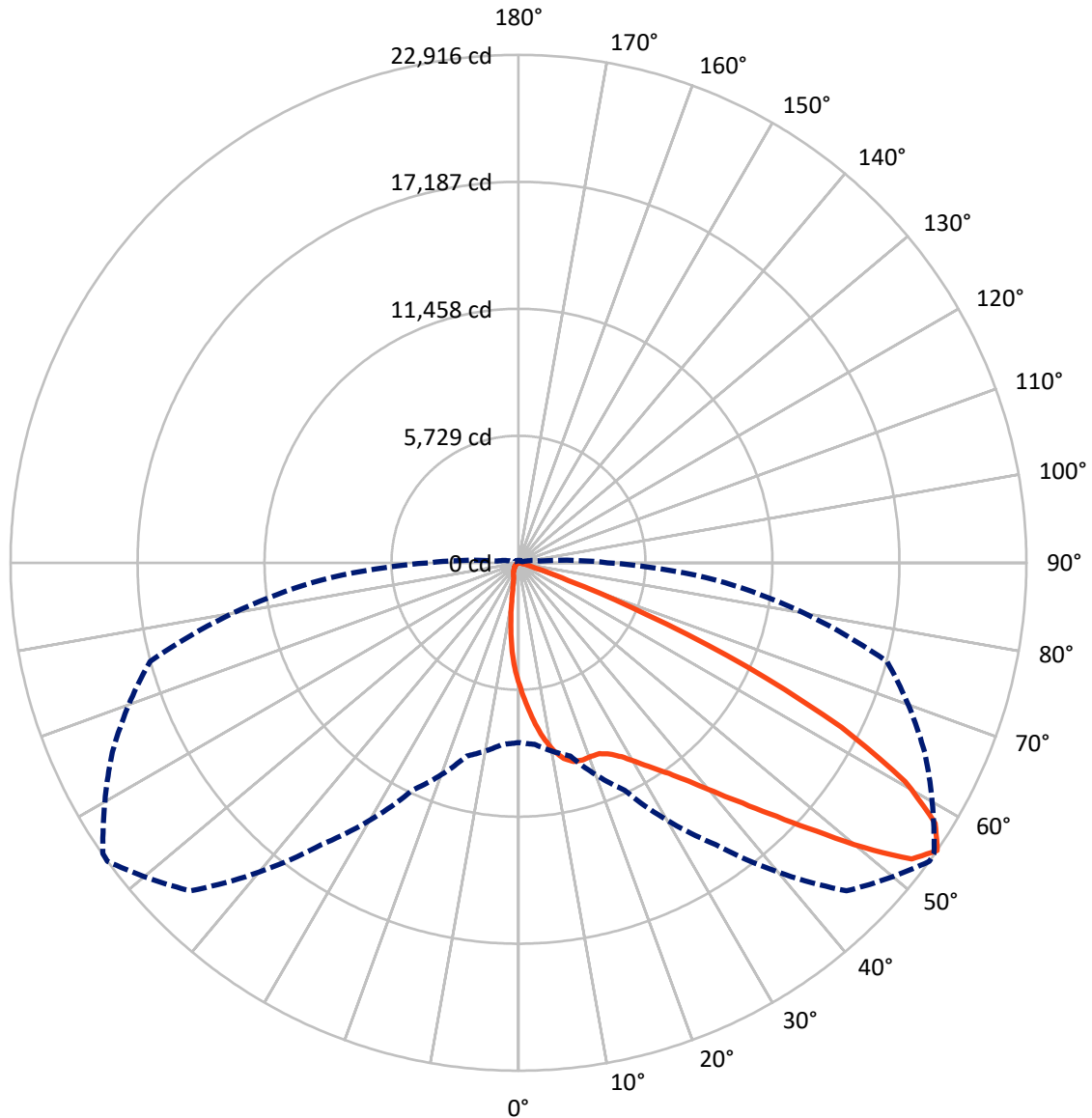
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1226.0	0.0	1226.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23347.0	0.0	23347.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	24573.0	0.0	24573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.8	2.1
10°-20°	1389.9	5.7
20°-30°	2373.0	9.7
30°-40°	3808.3	15.5
40°-50°	6085.7	24.8
50°-60°	6521.0	26.5
60°-70°	3348.1	13.6
70°-80°	507.2	2.1
80°-90°	33.0	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°	24573.0	100.0
0°-180°	24573.0	100.0

Coefficient of Utilization



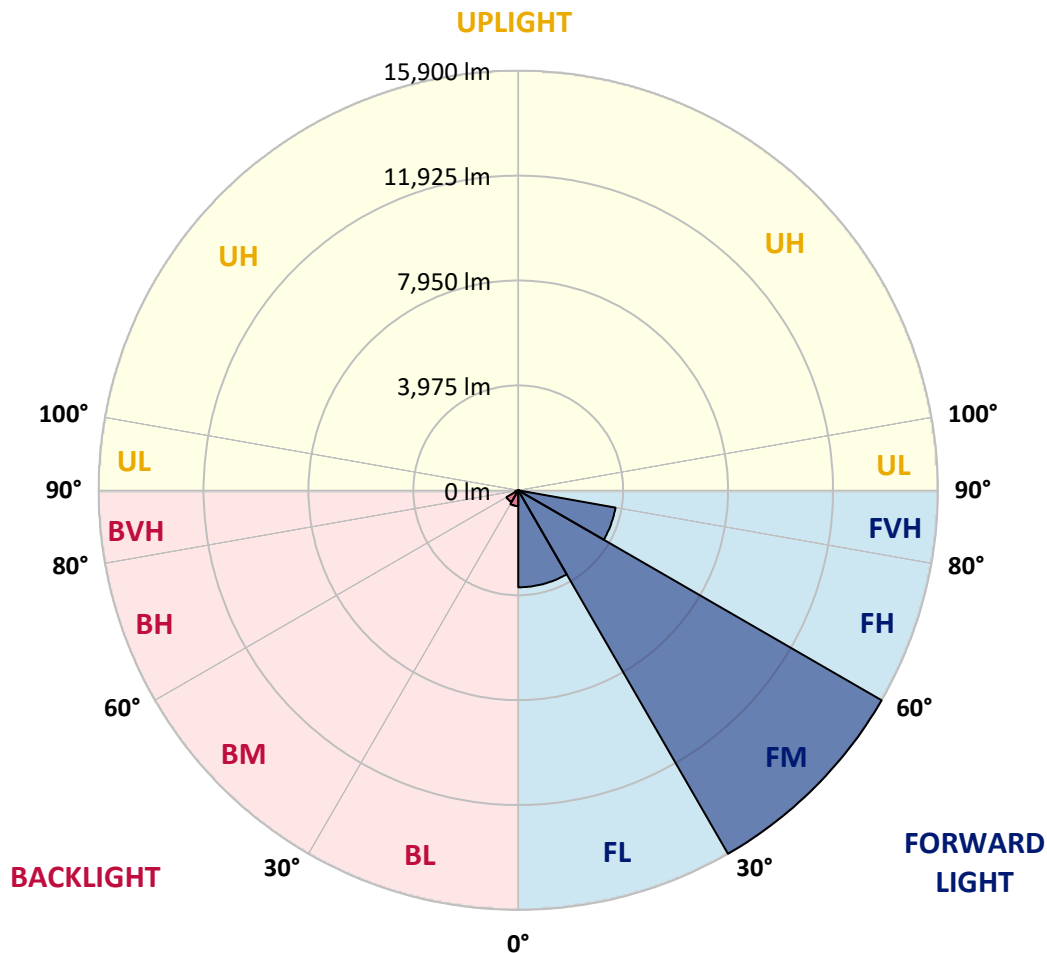
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3673.2	14.9			
FM (30°-60°)	15899.8	64.7			
FH (60°-80°)	3742.2	15.2			G2/5000
FVH (80°-90°)	31.7	0.1			G1/100
BL (0°-30°)	596.5	2.4	B2/1000		
BM (30°-60°)	515.2	2.1	B1/1000		
BH (60°-80°)	113.0	0.5	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4
2.5°	6906.3	6803.3	6806.5	6759.8	6589.0	6455.3	6316.2	6283.3	6066.9	5839.8	5621.2
5°	8100.1	8024.8	8006.7	7916.5	7678.8	7427.3	7157.8	7095.2	6671.7	6206.9	5749.6
7.5°	8713.5	8714.5	8699.7	8666.8	8518.2	8274.2	7945.2	7879.4	7303.2	6605.9	5883.3
10°	8535.2	8575.5	8658.3	8767.6	8881.2	8850.4	8603.1	8543.7	7917.6	7028.3	6031.8
12.5°	8119.2	8124.5	8216.8	8396.2	8723.0	9058.4	9062.6	9042.5	8504.4	7469.8	6195.3
15°	7912.3	7932.4	7966.4	8082.1	8391.9	8928.9	9313.1	9341.7	9042.5	7938.8	6369.3
17.5°	8048.1	8076.8	8048.1	8061.9	8241.3	8724.1	9356.6	9429.8	9512.6	8402.6	6533.8
20°	8416.4	8442.9	8391.9	8335.7	8370.7	8664.7	9325.8	9424.5	9880.8	8814.3	6671.7
22.5°	8913.0	8923.6	8846.1	8753.8	8728.3	8866.3	9351.3	9453.1	10175.8	9186.8	6758.8
25°	9459.5	9469.1	9372.5	9266.4	9205.9	9262.1	9560.3	9636.7	10435.8	9542.3	6808.6
27.5°	10054.8	10063.3	9942.4	9811.8	9741.8	9743.9	9905.2	9986.9	10712.8	9947.7	6849.0
30°	10684.1	10679.9	10568.5	10387.0	10297.9	10295.7	10401.8	10484.6	11113.9	10467.6	6904.1
32.5°	11390.9	11382.4	11224.3	10999.3	10898.5	10913.3	11007.8	11055.5	11611.6	11021.6	7002.8
35°	12321.6	12297.1	12058.4	11779.3	11593.6	11588.3	11667.9	11706.1	12246.2	11692.3	7167.3
37.5°	13529.2	13506.9	13183.2	12777.9	12516.8	12419.2	12513.6	12562.4	13151.4	12552.9	7431.6
40°	14719.9	14697.6	14505.5	14134.1	13731.9	13497.4	13571.6	13623.6	14281.6	13597.1	7764.8
42.5°	15541.2	15560.3	15627.2	15658.0	15281.2	14788.8	14822.8	14876.9	15469.1	14713.5	8145.7
45°	15757.7	15799.1	16176.9	16918.7	17059.8	16675.6	16320.1	16349.9	16675.6	15829.9	8526.7
47.5°	15107.2	15183.6	15912.6	17292.2	18487.1	18758.8	18086.0	18046.7	17833.4	16732.9	8797.3
50°	13628.9	13699.0	14643.5	16684.1	18920.1	20747.5	20202.0	20086.3	18849.0	17273.1	8892.8
52.5°	11489.6	11574.5	12341.7	14769.7	18104.0	21634.6	22205.5	22109.0	19593.9	17315.5	8908.7
55°	8113.9	8216.8	9028.7	11319.8	15517.9	20928.9	22915.5	22886.8	20212.6	17203.1	8942.7
57.5°	4560.0	4634.2	5509.7	7256.5	11365.4	18229.2	22173.7	22363.7	20586.2	17007.8	8993.6
60°	2024.8	2044.9	2498.1	3612.3	6653.7	13931.4	20050.2	20370.7	20265.7	16746.7	9079.6
62.5°	1122.7	1105.8	1105.8	1501.6	2891.8	8624.3	16349.9	16879.4	18897.8	16437.9	9083.8
65°	879.7	863.8	818.2	824.5	1101.5	3827.7	11321.9	12263.2	16300.0	15532.7	8778.2
67.5°	746.0	732.2	686.6	668.6	684.5	1262.8	6220.7	7198.1	12368.2	13180.1	7603.5
70°	630.4	620.8	597.5	575.2	534.8	624.0	2380.3	3044.6	7621.5	8767.6	5190.3
72.5°	507.3	503.0	511.5	492.4	443.6	416.0	813.9	985.9	3423.4	3912.6	2138.3
75°	437.2	435.1	439.3	420.2	365.1	289.7	413.9	452.1	965.7	957.2	433.0
77.5°	284.4	287.6	364.0	355.5	314.1	193.1	214.4	231.3	292.9	219.7	131.6
80°	181.5	179.3	184.6	295.0	282.3	147.5	107.2	112.5	141.1	108.2	63.7
82.5°	110.4	108.2	121.0	138.0	142.2	102.9	65.8	66.9	88.1	70.0	34.0
85°	9.6	12.7	73.2	67.9	48.8	31.8	31.8	34.0	46.7	41.4	19.1
87.5°	0.0	0.0	12.7	19.1	10.6	11.7	11.7	12.7	18.0	18.0	9.6
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°	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4	5503.4
2.5°	5507.6	5397.2	5174.4	4960.0	4778.6	4603.5	4404.0	4206.6	4114.3	4077.1	4038.9
5°	5517.2	5290.1	4830.6	4367.9	3888.2	3456.3	3088.1	2710.3	2521.4	2438.6	2400.4
7.5°	5529.9	5183.9	4441.1	3664.3	2891.8	2306.0	1794.5	1465.5	1323.3	1301.0	1245.8
10°	5532.0	5055.5	3989.0	2887.5	1938.8	1390.2	1069.7	899.9	837.3	826.7	808.6
12.5°	5536.3	4903.8	3487.1	2138.3	1292.5	929.6	773.6	717.4	700.4	699.3	699.3
15°	5549.0	4744.6	2966.0	1540.9	928.5	736.5	679.2	656.9	650.5	653.7	652.6
17.5°	5549.0	4556.8	2454.5	1148.2	750.3	662.2	630.4	615.5	613.4	616.6	617.6
20°	5508.7	4328.6	1985.5	893.5	665.4	614.4	585.8	572.0	566.7	568.8	569.9
22.5°	5412.1	4048.5	1603.5	739.7	609.1	570.9	540.1	518.9	510.4	511.5	511.5
25°	5261.4	3716.3	1254.3	639.9	563.5	524.2	488.2	463.7	458.4	457.4	459.5
27.5°	5068.3	3349.1	998.6	563.5	509.4	472.2	436.2	416.0	411.7	412.8	413.9
30°	4878.3	2968.2	787.4	498.8	448.9	413.9	386.3	376.7	376.7	379.9	381.0
32.5°	4704.3	2602.1	622.9	442.5	394.8	362.9	347.0	346.0	351.3	353.4	354.4
35°	4554.7	2263.5	515.7	399.0	352.3	324.7	319.4	323.7	330.0	334.3	335.3
37.5°	4448.5	1961.1	451.0	362.9	319.4	297.1	296.1	304.6	313.1	322.6	324.7
40°	4404.0	1705.3	406.4	331.1	292.9	275.9	272.7	284.4	300.3	314.1	316.2
42.5°	4366.8	1496.3	368.2	300.3	271.7	247.3	246.2	261.1	280.2	294.0	297.1
45°	4335.0	1328.6	333.2	267.4	244.1	212.2	215.4	234.5	249.4	264.2	267.4
47.5°	4269.2	1190.7	295.0	232.4	201.6	181.5	187.8	204.8	216.5	238.8	242.0
50°	4151.4	1078.2	255.7	190.0	164.5	157.1	166.6	178.3	193.1	212.2	214.4
52.5°	4071.8	993.3	221.8	159.2	135.8	138.0	147.5	151.8	160.2	167.7	165.5
55°	4026.2	946.6	194.2	138.0	115.7	122.0	124.2	118.9	114.6	107.2	104.0
57.5°	4020.9	904.1	173.0	119.9	101.9	105.1	97.6	79.6	64.7	56.2	54.1
60°	4012.4	852.1	156.0	100.8	90.2	86.0	70.0	43.5	30.8	28.7	28.7
62.5°	3920.1	771.5	143.3	84.9	76.4	64.7	40.3	20.2	17.0	18.0	18.0
65°	3626.1	659.0	130.5	69.0	60.5	46.7	20.2	11.7	6.4	7.4	7.4
67.5°	3082.8	525.3	116.7	53.1	45.6	29.7	11.7	5.3	0.0	0.0	0.0
70°	2064.0	325.8	98.7	37.1	29.7	18.0	8.5	1.1	0.0	0.0	0.0
72.5°	791.7	176.2	79.6	22.3	19.1	12.7	5.3	0.0	0.0	0.0	0.0
75°	178.3	115.7	55.2	15.9	13.8	8.5	2.1	0.0	0.0	0.0	0.0
77.5°	67.9	83.8	31.8	10.6	9.6	5.3	0.0	0.0	0.0	0.0	0.0
80°	32.9	49.9	14.9	6.4	5.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	17.0	19.1	6.4	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.6	9.6	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.2	1.1	1.1	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)