

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: LUMARK

Report Number: P885298

Luminaire Tested: **NAV-SB6C-735-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35650 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

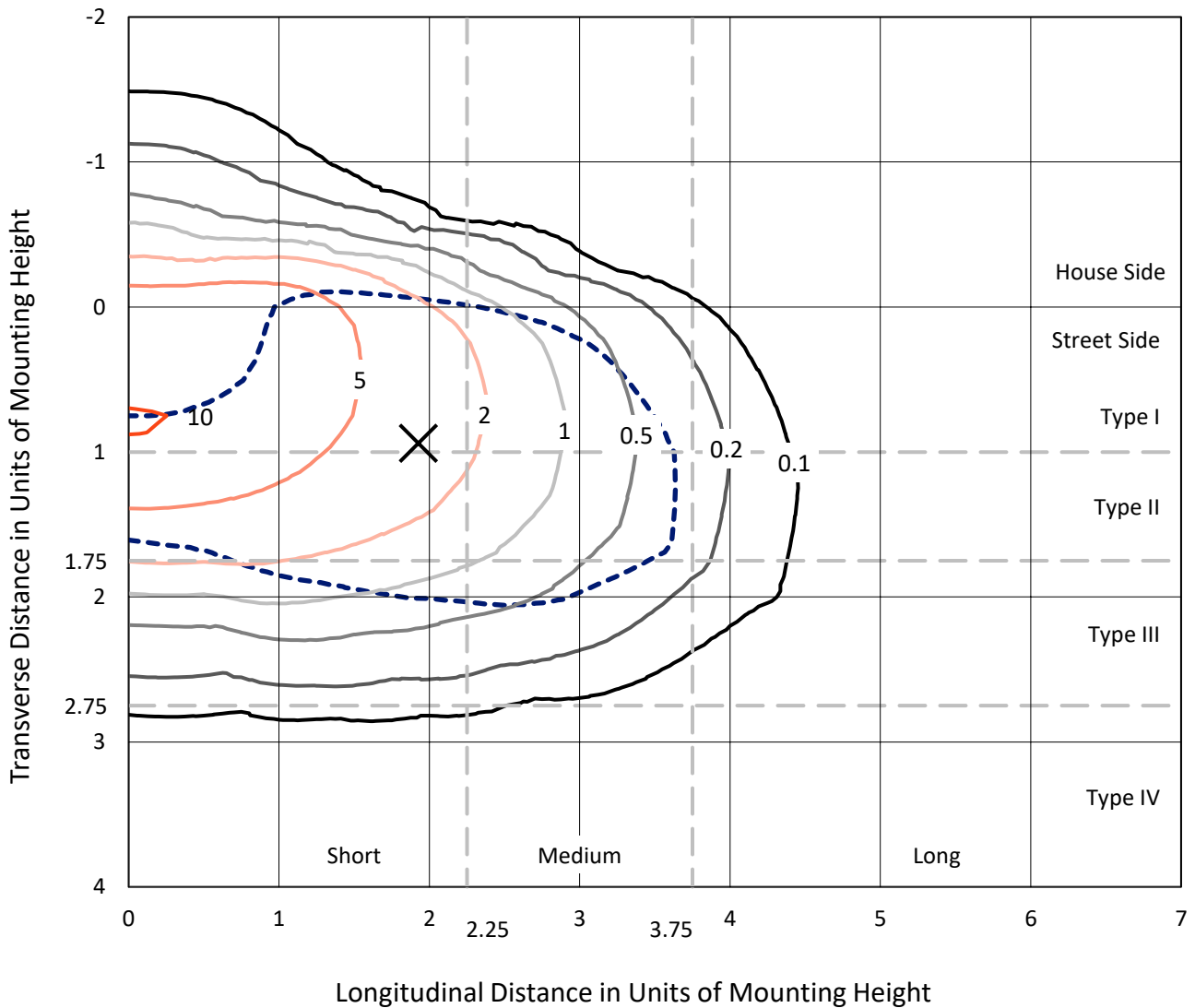
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

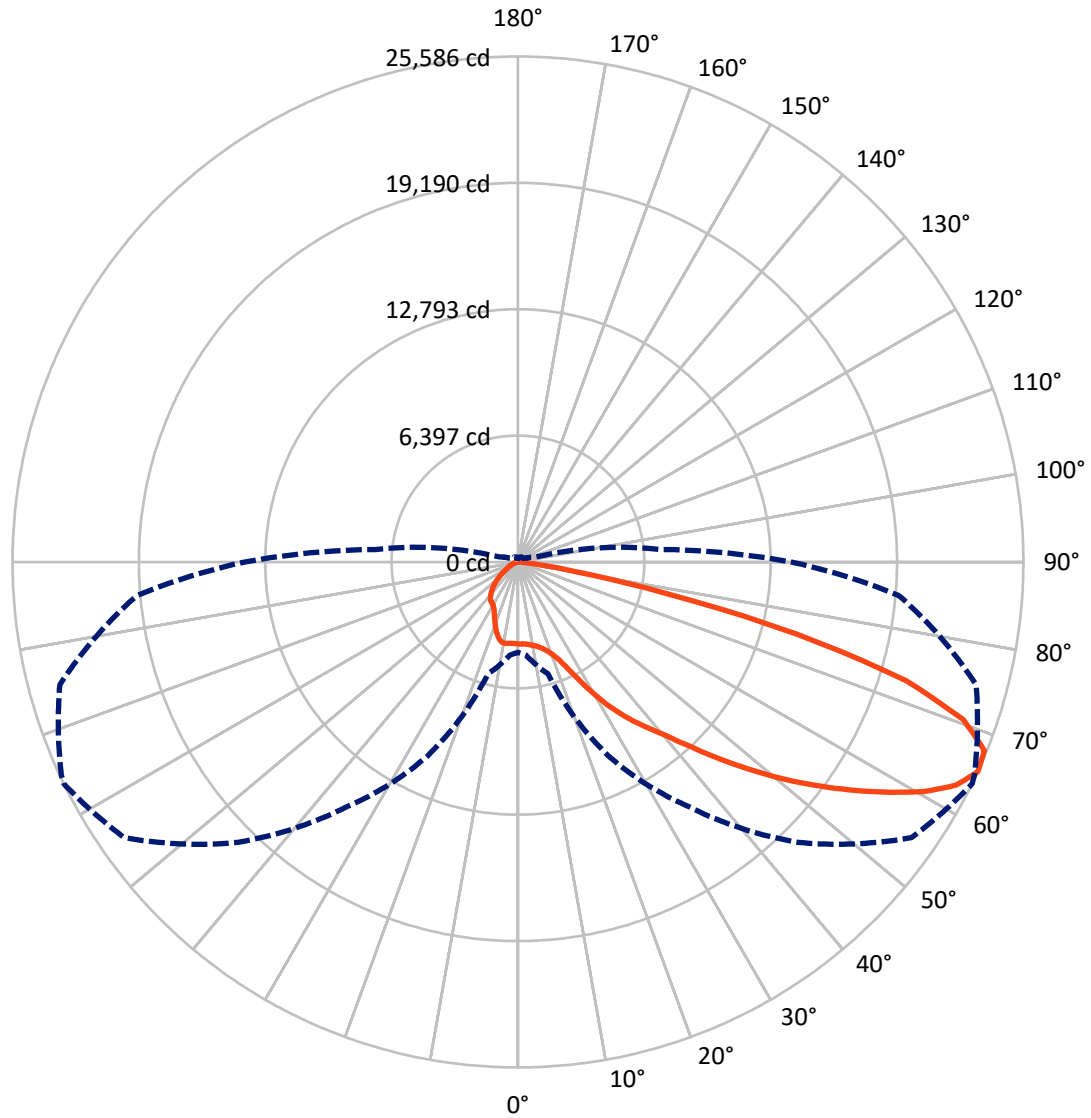
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4767.5	0.0	4767.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30882.5	0.0	30882.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	35650.0	0.0	35650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.6	1.1
10°-20°	1037.6	2.9
20°-30°	1966.1	5.5
30°-40°	3978.6	11.2
40°-50°	6777.5	19.0
50°-60°	9216.9	25.9
60°-70°	8655.1	24.3
70°-80°	3467.6	9.7
80°-90°	168.0	0.5
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°	35650.0	100.0
0°-180°	35650.0	100.0

Coefficient of Utilization



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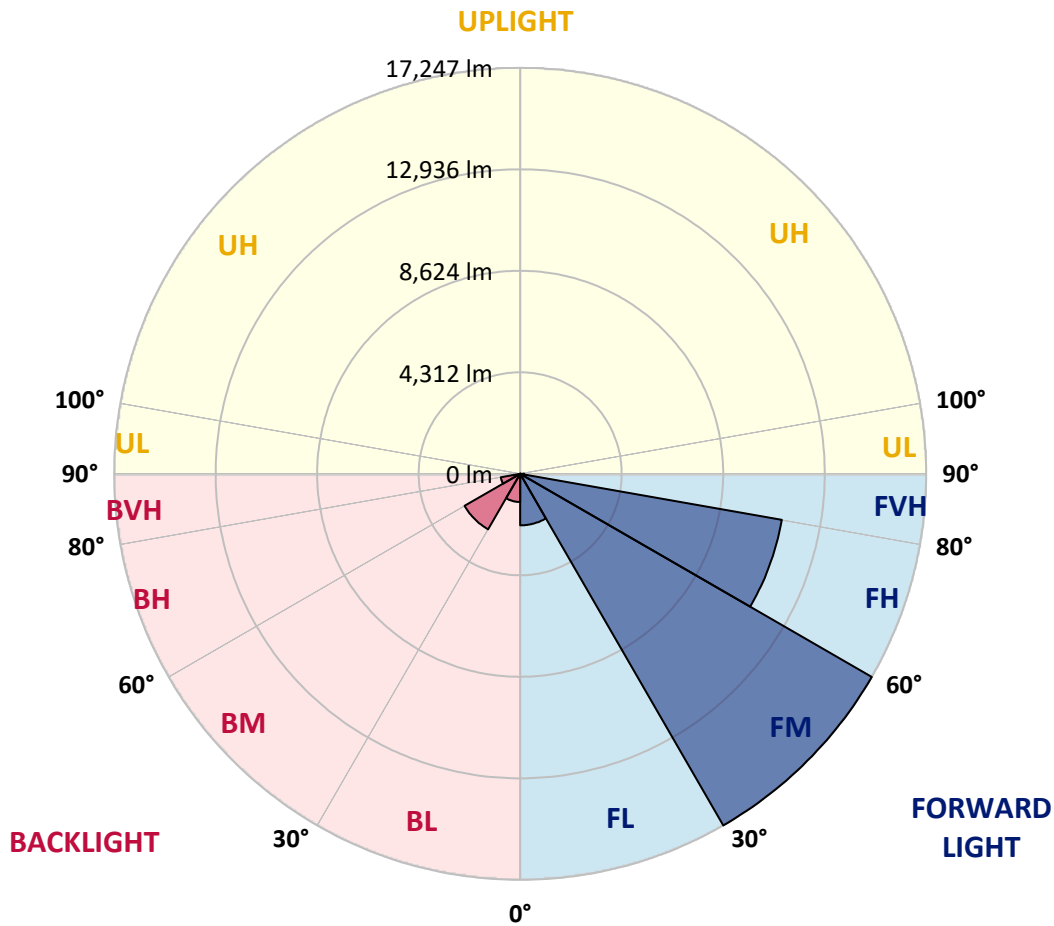
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.3	6.1			
FM (30°-60°)	17247.4	48.4			
FH (60°-80°)	11286.0	31.7			G4/12000
FVH (80°-90°)	159.8	0.4			G2/225
BL (0°-30°)	1197.0	3.4	B3/2500		
BM (30°-60°)	2725.5	7.6	B3/5000		
BH (60°-80°)	836.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5
2.5°	4132.1	4160.8	4153.6	4146.5	4144.1	4148.9	4151.2	4148.9	4148.9	4148.9	4151.2
5°	4053.3	4077.2	4077.2	4093.9	4117.8	4146.5	4168.0	4172.8	4177.5	4184.7	4182.3
7.5°	3902.7	3921.8	3936.2	3991.1	4050.9	4127.3	4191.9	4225.3	4230.1	4256.4	4266.0
10°	3799.9	3823.8	3847.7	3905.1	3991.1	4105.8	4215.8	4297.0	4309.0	4371.1	4399.8
12.5°	3795.2	3819.0	3850.1	3912.3	4012.6	4134.5	4268.3	4385.5	4407.0	4497.8	4557.5
15°	3845.3	3874.0	3902.7	3979.2	4086.7	4234.9	4378.3	4524.1	4545.6	4674.6	4739.2
17.5°	3948.1	3986.3	4007.9	4084.3	4199.0	4363.9	4552.7	4720.0	4739.2	4889.7	4971.0
20°	4151.2	4196.7	4203.8	4266.0	4378.3	4555.1	4779.8	4987.7	5011.6	5183.7	5274.5
22.5°	4571.9	4636.4	4579.0	4610.1	4710.5	4887.3	5131.1	5394.0	5427.4	5623.4	5704.7
25°	5312.7	5403.5	5255.4	5202.8	5245.8	5429.8	5735.7	6067.9	6106.2	6263.9	6304.5
27.5°	6768.2	6651.1	6426.4	6206.6	6077.5	6182.7	6526.8	6937.9	6985.7	7138.6	7090.8
30°	8367.0	8264.3	7960.7	7473.2	7167.3	7150.6	7468.4	7927.3	7982.2	8128.0	7982.2
32.5°	9968.2	9870.3	9540.5	8940.6	8410.0	8147.1	8367.0	8876.1	8904.7	8997.9	8782.9
35°	11543.2	11442.8	11113.0	10498.8	9846.4	9248.9	9205.9	9779.4	9789.0	9887.0	9566.7
37.5°	13127.7	13044.0	12692.7	12090.5	11447.6	10623.1	10224.0	10635.0	10647.0	10742.6	10410.4
40°	14258.1	14294.0	14052.6	13586.5	13034.5	12133.5	11366.3	11545.6	11473.9	11634.0	11435.6
42.5°	15228.4	15300.1	15089.8	14855.6	14535.3	13741.9	12781.2	12750.1	12635.4	12721.4	12515.9
45°	16067.3	16127.0	15938.2	15883.2	15876.1	15319.2	14327.4	14141.0	13980.9	13964.1	13718.0
47.5°	16375.6	16490.3	16571.5	16755.5	17114.0	16879.8	15926.3	15637.1	15457.8	15326.4	14936.8
50°	16492.7	16614.5	16891.8	17427.1	18275.5	18375.9	17517.9	17192.9	16973.0	16734.0	16160.5
52.5°	16334.9	16552.4	16925.2	17826.2	19057.0	19575.6	19045.1	18760.7	18509.7	18120.2	17269.4
55°	15405.3	15622.7	16385.1	17821.4	19446.6	20416.9	20488.6	20361.9	20079.9	19465.7	18165.6
57.5°	13445.5	13768.2	14975.1	17214.4	19439.4	21141.0	21903.4	21994.2	21678.7	20799.2	18870.6
60°	10730.6	11168.0	12640.1	15868.9	18839.5	21532.9	23143.7	23597.8	23263.2	22113.7	19441.8
62.5°	7487.5	7994.2	9387.5	13761.0	17467.7	21250.9	24049.5	24888.4	24635.0	23289.5	19661.7
65°	4567.1	4729.6	5852.8	10828.6	15135.2	20070.3	24329.1	25586.2	25502.6	24008.9	19336.6
67.5°	3042.3	3178.6	3501.2	7425.4	11748.7	17711.5	23659.9	25464.3	25488.2	23891.8	18146.5
70°	1833.0	1950.2	2160.5	4318.5	7614.2	14019.1	21587.9	23910.9	24049.5	22326.4	15890.4
72.5°	755.2	834.1	1025.3	1957.3	3943.3	8897.6	17190.5	20529.2	20851.8	18772.6	12195.6
75°	427.8	468.4	602.3	982.2	1711.2	4146.5	10412.8	14573.6	15049.2	12938.9	7337.0
77.5°	284.4	303.5	389.6	635.7	963.1	1414.8	4450.0	7592.7	8500.9	7066.9	3176.2
80°	191.2	207.9	267.7	425.4	626.2	607.0	1417.2	2812.9	3460.6	2428.1	774.3
82.5°	129.1	131.4	191.2	279.6	396.7	294.0	418.2	874.7	1099.4	702.6	294.0
85°	74.1	71.7	141.0	162.5	176.9	121.9	126.7	262.9	344.1	296.3	167.3
87.5°	9.6	14.3	55.0	43.0	23.9	26.3	26.3	45.4	66.9	71.7	35.8
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°	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5	4146.5
2.5°	4151.2	4148.9	4141.7	4134.5	4117.8	4108.2	4113.0	4108.2	4105.8	4108.2	4117.8
5°	4182.3	4175.1	4156.0	4132.1	4098.7	4058.0	4031.8	3993.5	3957.7	3936.2	3940.9
7.5°	4266.0	4258.8	4232.5	4165.6	4058.0	3888.4	3733.0	3596.8	3494.0	3434.3	3436.7
10°	4399.8	4387.8	4347.2	4199.0	3917.0	3546.6	3238.3	2982.6	2815.3	2736.4	2729.3
12.5°	4557.5	4543.2	4471.5	4168.0	3649.4	3071.0	2645.6	2361.2	2205.9	2136.6	2129.4
15°	4743.9	4724.8	4583.8	4019.8	3259.8	2545.2	2155.7	1943.0	1842.6	1780.5	1782.9
17.5°	4975.8	4942.3	4667.5	3797.5	2836.8	2143.7	1854.6	1694.4	1606.0	1546.3	1541.5
20°	5276.9	5221.9	4734.4	3532.3	2447.3	1890.4	1651.4	1517.6	1450.7	1398.1	1388.5
22.5°	5697.5	5618.6	4815.6	3245.5	2172.4	1715.9	1500.9	1402.9	1347.9	1288.2	1278.6
25°	6218.5	6125.3	4916.0	2980.2	1983.6	1565.4	1390.9	1309.7	1245.1	1175.8	1168.7
27.5°	6947.4	6780.1	5035.5	2762.7	1821.1	1436.3	1290.5	1199.7	1125.6	1068.3	1056.3
30°	7760.0	7485.1	5140.7	2631.3	1672.9	1316.8	1159.1	1068.3	999.0	958.3	951.2
32.5°	8529.5	8156.7	5210.0	2573.9	1539.1	1180.6	1015.7	917.7	865.1	853.2	860.4
35°	9256.1	8763.7	5202.8	2518.9	1419.6	1044.4	874.7	774.3	733.7	740.9	740.9
37.5°	10092.5	9411.4	5152.6	2432.9	1321.6	920.1	752.8	664.4	628.5	630.9	640.5
40°	11065.2	10159.4	5121.5	2270.4	1214.1	805.4	652.4	580.7	554.5	544.9	542.5
42.5°	12102.4	10883.6	5126.3	2086.4	1080.2	702.6	583.1	523.4	499.5	492.3	489.9
45°	13144.4	11574.3	5133.5	1895.2	939.2	623.8	532.9	482.8	468.4	458.9	458.9
47.5°	14124.3	12162.2	4999.7	1689.7	800.6	564.0	492.3	458.9	446.9	435.0	435.0
50°	15037.2	12554.1	4677.0	1450.7	690.7	516.2	461.2	437.4	425.4	413.5	413.5
52.5°	15747.0	12616.2	4144.1	1204.5	614.2	480.4	442.1	420.6	406.3	394.3	391.9
55°	16062.5	12226.7	3386.5	975.1	554.5	449.3	423.0	401.5	384.8	372.8	370.4
57.5°	15981.2	11407.0	2640.8	783.9	497.1	418.2	399.1	384.8	365.7	346.5	344.1
60°	15582.1	10310.0	1990.8	652.4	444.5	384.8	372.8	360.9	334.6	305.9	301.1
62.5°	14891.4	8931.0	1419.6	540.1	387.2	346.5	341.8	332.2	294.0	241.4	236.6
65°	13835.1	7255.7	956.0	449.3	332.2	303.5	305.9	289.2	239.0	179.2	174.5
67.5°	12291.2	5305.6	611.8	368.0	277.2	253.3	255.7	246.2	203.1	153.0	145.8
70°	10324.3	3513.1	399.1	279.6	222.3	196.0	210.3	212.7	172.1	124.3	119.5
72.5°	7568.8	2074.4	279.6	207.9	162.5	136.2	172.1	176.9	138.6	93.2	88.4
75°	4313.8	984.6	210.3	150.6	100.4	95.6	133.8	133.8	95.6	62.1	57.4
77.5°	1811.5	411.1	148.2	98.0	57.4	55.0	90.8	83.6	47.8	28.7	28.7
80°	523.4	184.0	78.9	47.8	23.9	21.5	35.8	26.3	11.9	4.8	4.8
82.5°	205.5	81.3	31.1	19.1	9.6	9.6	4.8	0.0	0.0	0.0	0.0
85°	121.9	33.5	14.3	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	7.2	4.8	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)