

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: P885493

Luminaire Tested: **NAV-SB6D-760-U-SL4-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-760-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46484 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

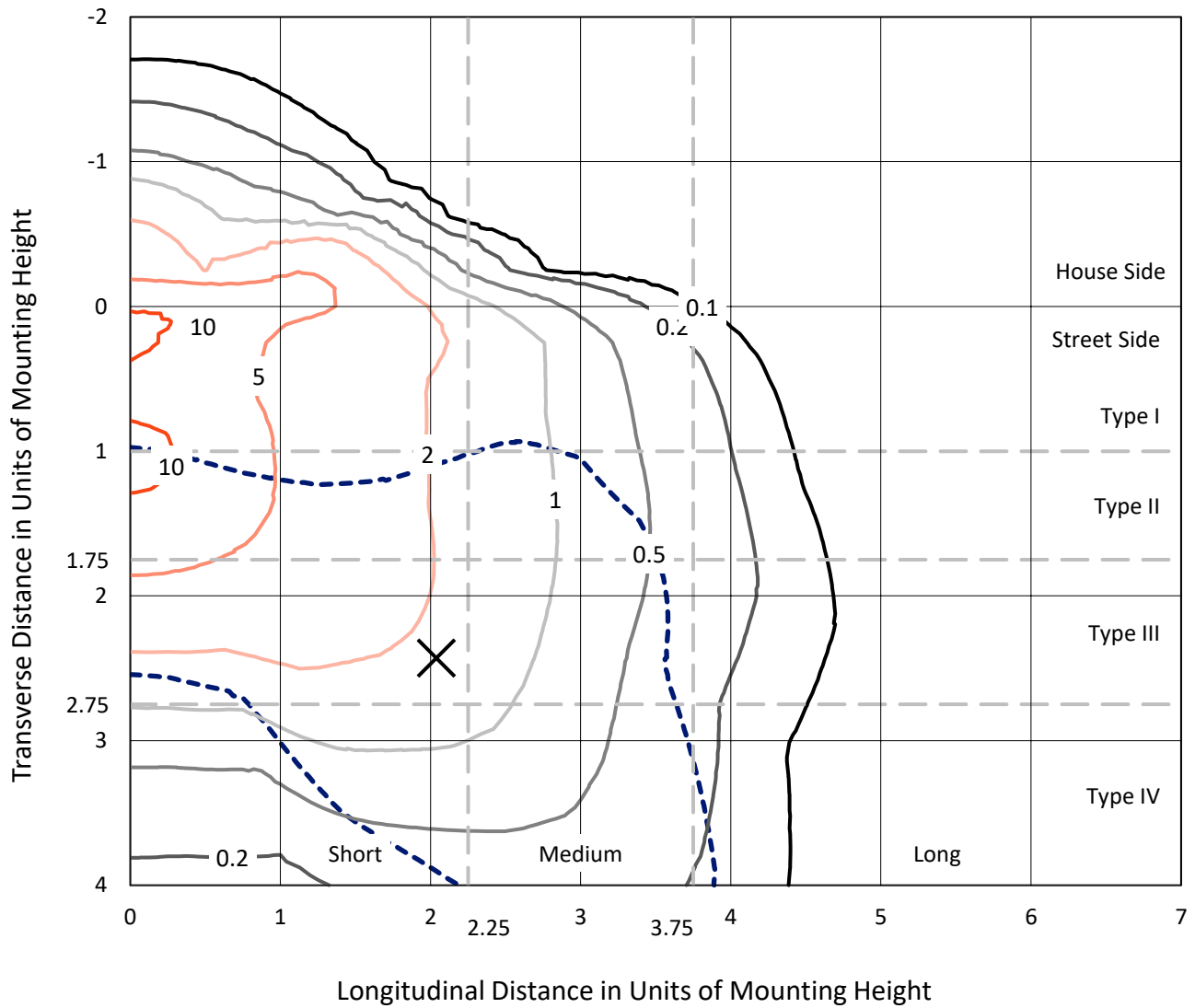
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

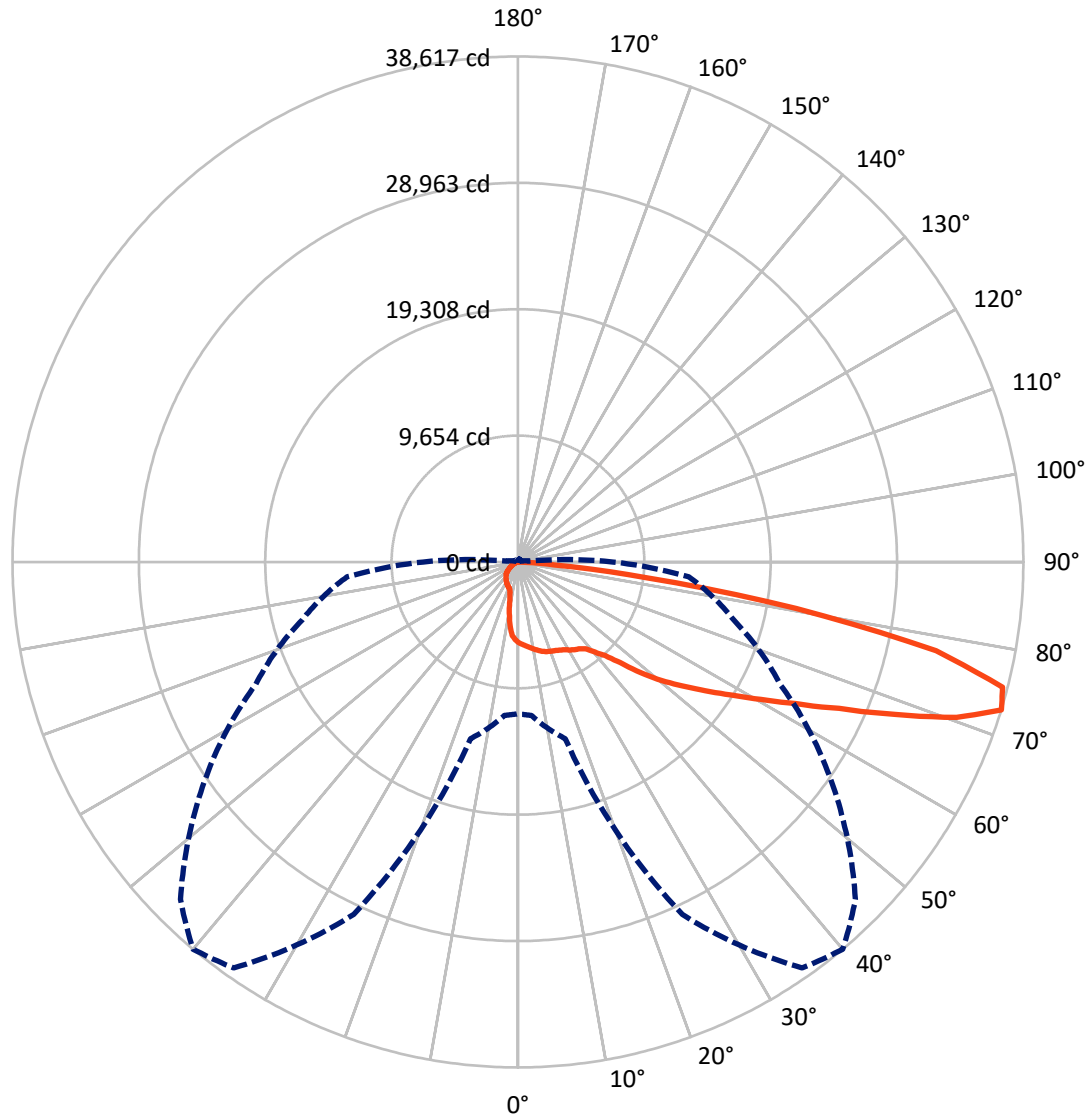
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6002.9	0.0	6002.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	40481.1	0.0	40481.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	46484.0	0.0	46484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	1.2
10°-20°	1526.5	3.3
20°-30°	2470.0	5.3
30°-40°	3646.6	7.8
40°-50°	6137.3	13.2
50°-60°	9529.5	20.5
60°-70°	11924.1	25.7
70°-80°	9762.3	21.0
80°-90°	925.7	2.0
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°	46484.0	100.0
0°-180°	46484.0	100.0

Coefficient of Utilization



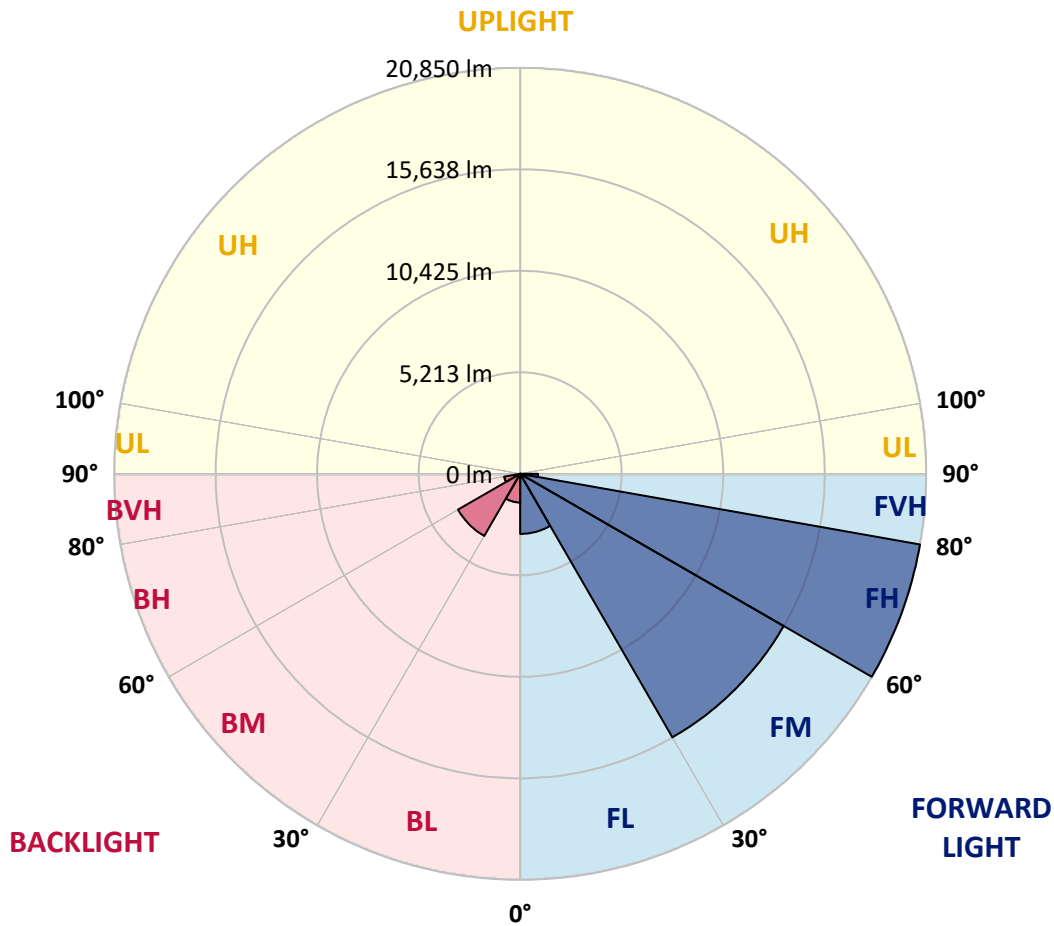
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3085.2	6.6			
FM (30°-60°)	15627.1	33.6			
FH (60°-80°)	20850.1	44.9			G5
FVH (80°-90°)	918.6	2.0			G5
BL (0°-30°)	1473.4	3.2	B3/2500		
BM (30°-60°)	3686.2	7.9	B3/5000		
BH (60°-80°)	836.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9
2.5°	6340.4	6364.9	6350.9	6322.9	6315.9	6301.9	6284.4	6277.4	6252.9	6231.9	6207.4
5°	6519.0	6543.5	6526.0	6487.5	6470.0	6452.4	6427.9	6406.9	6357.9	6312.4	6256.4
7.5°	6715.0	6736.0	6715.0	6659.0	6631.0	6610.0	6575.0	6543.5	6487.5	6420.9	6350.9
10°	6932.1	6949.6	6918.1	6844.6	6799.1	6767.5	6736.0	6701.0	6648.5	6575.0	6491.0
12.5°	7135.2	7156.2	7107.1	7019.6	6967.1	6935.6	6900.6	6872.6	6820.1	6750.0	6662.5
15°	7320.7	7352.2	7268.2	7173.7	7114.1	7089.6	7054.6	7037.1	7002.1	6953.1	6872.6
17.5°	7460.8	7481.8	7394.2	7282.2	7215.7	7198.2	7173.7	7184.2	7177.2	7152.7	7100.1
20°	7579.8	7593.8	7478.3	7341.7	7268.2	7271.7	7264.7	7299.7	7313.7	7313.7	7310.2
22.5°	7726.8	7730.3	7583.3	7411.7	7324.2	7348.7	7359.2	7397.7	7425.7	7453.8	7516.8
25°	7919.4	7912.4	7737.3	7502.8	7425.7	7460.8	7485.3	7499.3	7530.8	7576.3	7719.8
27.5°	8206.5	8185.5	7961.4	7649.8	7558.8	7590.3	7635.8	7628.8	7614.8	7649.8	7891.4
30°	8570.6	8542.6	8245.0	7856.4	7772.3	7800.4	7814.4	7751.3	7649.8	7681.3	8041.9
32.5°	9148.3	9099.2	8686.1	8087.4	7957.9	7989.4	7971.9	7842.4	7691.8	7723.3	8192.5
35°	10153.1	10034.0	9449.4	8570.6	8168.0	8133.0	8090.9	7964.9	7779.3	7747.8	8318.5
37.5°	12288.7	12078.6	11080.8	9512.4	8644.1	8416.5	8287.0	8161.0	7873.9	7747.8	8462.1
40°	14697.4	14483.9	13332.0	11087.8	9435.3	9050.2	8742.1	8392.0	7971.9	7793.4	8686.1
42.5°	17211.2	16976.6	15793.3	13041.4	10566.2	9775.0	9200.8	8577.6	8133.0	7933.4	8983.7
45°	20019.0	19725.0	18177.5	15079.1	12208.2	10979.3	9939.5	8959.2	8413.0	8182.0	9389.8
47.5°	22980.9	22599.3	20554.7	17057.2	13976.2	12645.8	11290.9	9641.9	8826.2	8553.1	9939.5
50°	25606.7	25228.6	23008.9	19126.3	15628.7	14231.8	12831.4	10587.2	9445.9	9078.2	10678.2
52.5°	27493.8	27206.7	25242.6	21261.9	17347.7	15719.7	14228.3	11686.5	10230.1	9750.4	11550.0
55°	28757.7	28495.1	26825.1	23285.5	19346.8	17358.2	15604.2	12880.4	11175.4	10555.7	12512.8
57.5°	29524.4	29373.9	27969.9	25092.1	21328.4	19150.8	17179.7	14193.3	12288.7	11504.5	13587.6
60°	29797.5	29675.0	28680.7	26814.6	23723.2	21303.9	19031.7	15674.2	13640.1	12582.8	14690.4
62.5°	29069.3	29093.8	29191.8	28855.7	26247.4	23824.7	21251.4	17452.8	15138.6	13804.7	15726.7
65°	25641.7	25844.8	27707.4	31117.4	29590.9	26982.6	24076.8	19623.4	16854.1	15194.6	16549.5
67.5°	21230.4	21524.5	23842.2	32440.8	33155.0	31082.4	28012.0	22389.3	18898.7	16609.0	16861.1
70°	16251.9	16567.0	19374.9	32164.2	36491.5	35563.7	32878.4	25907.8	21016.8	17589.3	16066.4
72.5°	11599.0	11760.1	13972.7	29703.0	37860.4	38616.7	36463.5	29240.8	22098.7	17046.6	13104.5
75°	8150.5	8122.5	9589.4	23919.2	35728.3	38245.5	35206.6	27437.8	19998.0	13542.1	8080.4
77.5°	3550.1	3557.1	4789.4	14525.9	28516.1	32664.9	29265.3	17186.7	13941.2	7177.2	3410.0
80°	920.8	948.8	1757.5	5783.7	17169.2	21559.5	17848.4	7555.3	6441.9	1750.5	651.2
82.5°	325.6	346.6	808.7	1817.0	6333.4	9887.0	7947.4	2415.7	1680.5	500.7	175.1
85°	94.5	112.0	434.1	556.7	1309.4	2793.8	1929.1	469.1	413.1	259.1	45.5
87.5°	0.0	14.0	87.5	77.0	77.0	52.5	98.0	52.5	66.5	31.5	14.0
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°	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9	6154.9
2.5°	6186.4	6161.9	6109.3	6053.3	6000.8	5951.8	5937.8	5885.3	5860.8	5864.3	5860.8
5°	6217.9	6172.4	6070.8	5948.3	5822.3	5678.7	5559.7	5391.6	5248.1	5230.6	5220.1
7.5°	6301.9	6228.4	6063.8	5825.8	5510.7	5115.0	4747.4	4383.3	4176.8	4064.7	4057.7
10°	6431.4	6333.4	6081.3	5626.2	4957.5	4250.3	3693.6	3235.0	3000.4	2891.9	2870.9
12.5°	6585.5	6477.0	6109.3	5286.6	4243.3	3315.5	2713.3	2433.2	2384.2	2377.2	2373.7
15°	6802.6	6683.5	6140.9	4828.0	3469.5	2524.3	2247.7	2251.2	2289.7	2310.7	2307.2
17.5°	7044.1	6925.1	6095.3	4267.8	2706.3	2156.7	2149.6	2181.2	2237.2	2258.2	2254.7
20°	7289.2	7177.2	5934.3	3609.6	2188.2	2055.1	2083.1	2118.1	2174.2	2202.2	2202.2
22.5°	7541.3	7443.2	5678.7	2909.4	1974.6	1981.6	2016.6	2051.6	2114.6	2146.1	2146.1
25°	7810.9	7726.8	5339.1	2331.7	1883.6	1904.6	1950.1	1992.1	2058.6	2097.1	2097.1
27.5°	8083.9	8020.9	4954.0	1946.6	1799.5	1824.1	1876.6	1932.6	1999.1	2044.6	2048.1
30°	8381.5	8346.5	4645.9	1803.0	1719.0	1740.0	1799.5	1862.6	1936.1	1992.1	1999.1
32.5°	8686.1	8679.1	4495.4	1908.1	1645.5	1659.5	1712.0	1775.0	1866.1	1936.1	1943.1
35°	8987.2	9001.2	4407.8	2205.7	1621.0	1582.5	1617.5	1673.5	1782.0	1869.6	1883.6
37.5°	9372.3	9407.3	4404.3	2527.8	1680.5	1505.5	1530.0	1568.5	1663.0	1764.5	1782.0
40°	9946.5	10132.1	4628.4	2804.3	1785.5	1435.4	1442.4	1449.4	1498.5	1582.5	1610.5
42.5°	10709.7	11252.4	5437.1	2993.4	1827.6	1372.4	1347.9	1309.4	1302.4	1347.9	1372.4
45°	11658.5	12607.3	6858.6	3098.4	1785.5	1302.4	1235.9	1134.3	1095.8	1127.3	1127.3
47.5°	12775.4	14091.8	8542.6	3122.9	1715.5	1214.9	1095.8	962.8	931.3	941.8	938.3
50°	13864.2	15205.1	10023.5	2919.9	1600.0	1102.8	941.8	829.8	808.7	812.2	812.2
52.5°	14827.0	15586.7	10443.7	2440.2	1445.9	966.3	808.7	731.7	717.7	717.7	714.2
55°	15464.2	15173.6	9312.8	1866.1	1253.4	826.2	693.2	654.7	647.7	644.2	637.2
57.5°	15597.2	13829.2	7033.6	1347.9	980.3	696.7	616.2	595.2	581.2	567.2	560.2
60°	15121.1	11588.5	4477.9	941.8	735.2	595.2	546.2	532.2	504.2	476.1	465.6
62.5°	14091.8	8752.6	2478.7	654.7	591.7	507.7	483.1	465.6	413.1	367.6	353.6
65°	12708.8	5818.8	1095.8	511.2	483.1	427.1	413.1	388.6	325.6	273.1	262.6
67.5°	11318.9	3350.5	493.6	409.6	388.6	350.1	339.6	322.1	276.6	227.6	220.6
70°	9732.9	1698.0	339.6	325.6	301.1	266.1	276.6	273.1	227.6	185.6	178.6
72.5°	7247.2	843.8	255.6	245.1	217.1	189.1	227.6	224.1	178.6	140.0	133.0
75°	4103.2	416.6	185.6	171.6	129.5	140.0	182.1	171.6	122.5	91.0	84.0
77.5°	1628.0	213.6	122.5	105.0	77.0	94.5	133.0	115.5	63.0	38.5	35.0
80°	374.6	105.0	63.0	45.5	35.0	56.0	70.0	42.0	17.5	3.5	0.0
82.5°	105.0	45.5	21.0	17.5	17.5	21.0	17.5	7.0	0.0	0.0	0.0
85°	35.0	21.0	7.0	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	14.0	7.0	0.0	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)