

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: P971332

Luminaire Tested: **NAV-SB6D-722-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

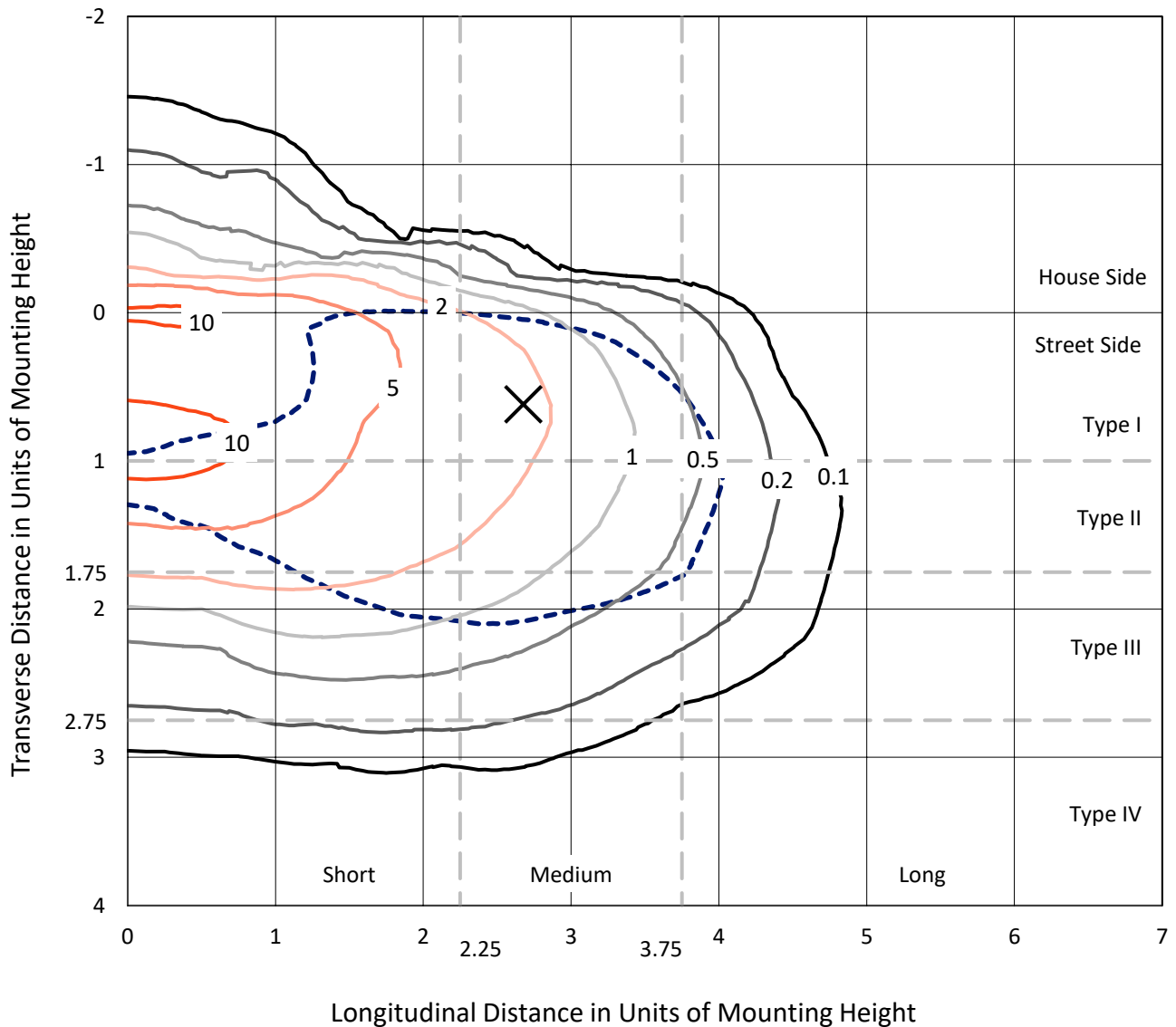
Lumens per Lamp: N/A  
Luminaire Lumens: 43501 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

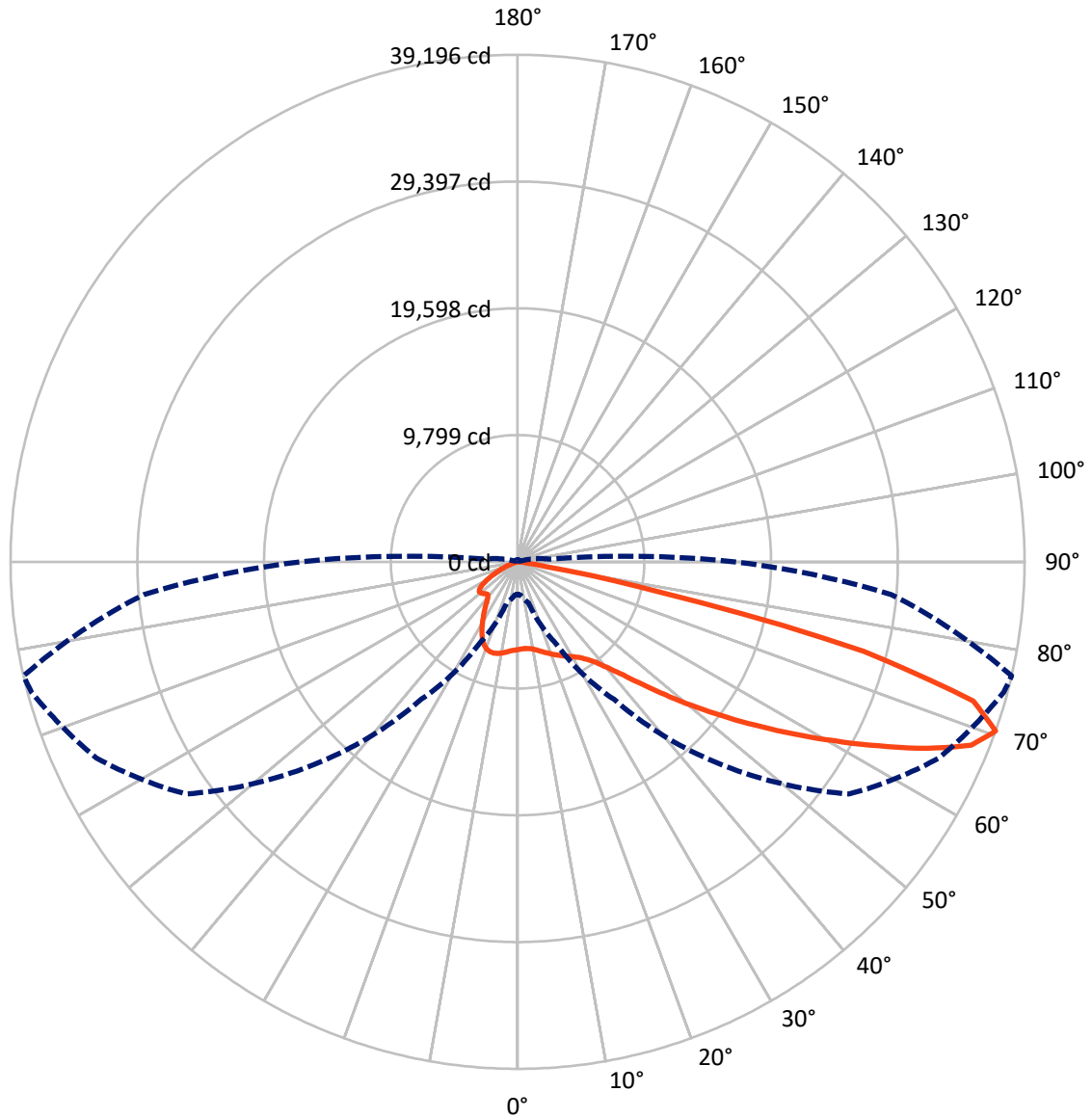
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4585.6	0.0	4585.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	38915.4	0.0	38915.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	43501.0	0.0	43501.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	584.8	1.3
10°-20°	1388.2	3.2
20°-30°	2147.2	4.9
30°-40°	3896.2	9.0
40°-50°	7354.6	16.9
50°-60°	10626.7	24.4
60°-70°	11311.9	26.0
70°-80°	5994.5	13.8
80°-90°	196.8	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°	43501.0	100.0
0°-180°	43501.0	100.0

**Coefficient of Utilization**

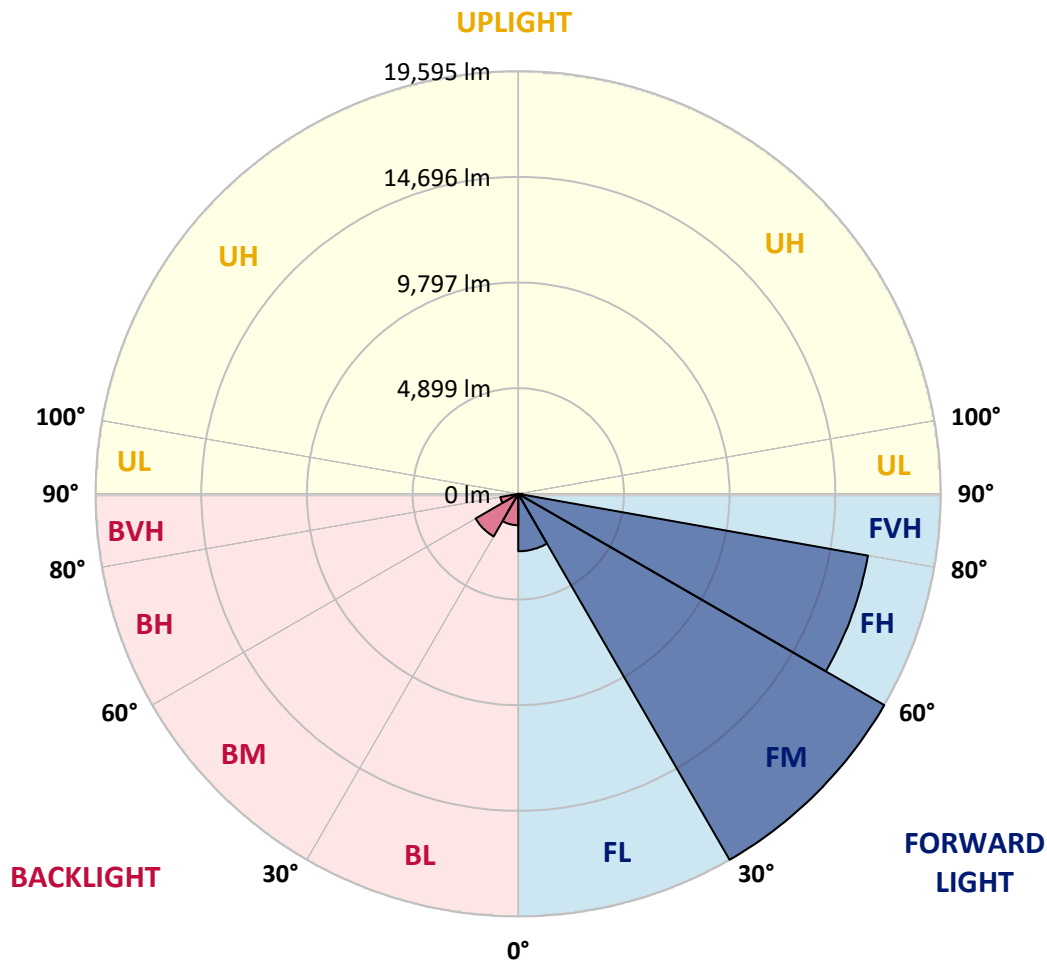


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.3	6.1			
FM (30°-60°)	19594.8	45.0			
FH (60°-80°)	16465.7	37.9			G5
FVH (80°-90°)	191.5	0.4			G2/225
BL (0°-30°)	1456.9	3.3	B3/2500		
BM (30°-60°)	2282.7	5.2	B2/2500		
BH (60°-80°)	840.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4
2.5°	6370.6	6428.3	6420.0	6458.4	6472.2	6527.1	6582.0	6656.2	6738.7	6735.9	6790.8
5°	6010.7	6068.4	6082.1	6134.3	6200.2	6285.4	6398.0	6546.4	6700.2	6724.9	6834.8
7.5°	5584.9	5645.3	5681.1	5785.4	5906.3	6082.1	6266.1	6483.2	6738.7	6774.4	6985.9
10°	5159.0	5214.1	5260.7	5409.0	5601.3	5862.4	6161.8	6474.9	6818.3	6870.6	7170.0
12.5°	4895.4	4947.6	4999.7	5128.9	5367.8	5686.5	6093.1	6513.4	6950.2	7024.3	7420.0
15°	4801.9	4848.7	4889.9	5005.3	5227.8	5590.3	6079.4	6593.1	7117.8	7216.7	7722.1
17.5°	4815.7	4840.5	4867.9	4955.8	5172.8	5546.4	6104.1	6730.5	7315.5	7403.5	8024.3
20°	4895.4	4909.1	4911.8	4972.3	5164.6	5540.9	6153.5	6862.3	7502.4	7620.5	8323.7
22.5°	4997.0	5002.5	4997.0	5038.2	5216.7	5582.2	6219.5	7021.7	7711.2	7821.1	8625.9
25°	5472.3	5367.8	5236.0	5156.4	5304.7	5661.8	6318.4	7235.9	7939.1	8046.2	8919.9
27.5°	6947.4	6648.0	6175.5	5645.3	5486.0	5777.2	6455.8	7452.9	8169.9	8266.1	9235.8
30°	9343.0	8950.1	8147.9	6953.0	6068.4	6018.9	6634.3	7670.0	8414.4	8518.8	9573.7
32.5°	11743.9	11647.8	10722.0	9068.2	7378.8	6557.3	6930.9	7963.8	8738.5	8820.9	10029.7
35°	14172.4	13977.3	13219.1	11584.6	9397.9	7653.5	7425.4	8348.5	9164.3	9257.8	10694.5
37.5°	16032.1	15914.0	15444.3	14098.2	11793.3	9345.6	8271.5	8944.6	9782.5	9886.8	11546.1
40°	17674.9	17620.0	17460.7	16573.3	14471.8	11559.8	9587.4	9867.7	10639.6	10763.2	12590.0
42.5°	18966.1	19095.1	19185.8	18938.6	17232.6	14087.2	11356.6	11164.3	11834.5	11960.9	13919.6
45°	20287.4	20331.4	20696.8	21053.9	19974.3	16729.9	13350.9	12683.5	13320.8	13477.3	15513.0
47.5°	21136.3	21312.1	21954.9	22584.0	22279.1	19350.7	15493.7	14477.3	15043.2	15337.2	17298.6
50°	21199.5	21531.9	22416.4	23512.6	23957.5	21845.0	17823.3	16521.2	17122.7	17446.9	19205.1
52.5°	20147.3	20663.8	22034.6	23639.0	24864.1	23957.5	20232.5	18565.0	19336.9	19759.9	21183.0
55°	15447.1	16122.8	20597.9	22952.1	24899.8	25559.2	22578.5	20694.0	21803.8	22281.9	23320.3
57.5°	13458.1	13798.8	16194.3	21759.9	24237.8	26204.7	24699.3	22721.4	24487.8	25081.1	25339.3
60°	11197.2	11645.0	13581.8	19809.5	23339.5	26267.9	26572.8	25336.7	27396.9	28064.5	27190.9
62.5°	7609.5	8095.8	10021.4	16457.9	22111.5	26237.6	28108.5	28028.8	30630.3	31347.3	28759.6
65°	4714.1	5019.0	6288.2	13438.9	20394.5	26270.6	29715.6	31297.9	34042.2	34770.3	29973.8
67.5°	3725.1	3865.2	4527.2	10318.2	17436.0	25529.0	31319.8	34371.8	37253.6	37830.5	30344.6
70°	2502.6	2587.8	3293.8	6917.2	12971.9	22106.1	31289.7	35915.8	38907.4	39195.8	28993.0
72.5°	1318.7	1384.6	1925.8	3203.1	7834.8	15713.5	26375.0	34069.7	37261.8	36827.8	24781.7
75°	659.3	769.2	1296.6	1626.3	3346.0	8763.3	16378.3	26861.3	29328.2	27646.9	15900.3
77.5°	500.0	604.3	1071.3	1071.3	1164.8	2950.4	6936.5	14650.3	13513.1	11252.1	4667.3
80°	318.7	412.0	936.7	810.4	486.3	750.0	1807.6	4104.2	2870.7	2184.0	848.9
82.5°	186.8	269.3	780.2	535.7	271.9	277.5	511.0	873.6	744.5	579.6	261.0
85°	74.2	175.8	535.7	211.6	107.1	68.7	153.9	186.8	153.9	115.4	65.9
87.5°	0.0	41.2	93.4	0.0	8.2	5.5	11.0	13.7	13.7	11.0	21.9
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°	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4	6785.4
2.5°	6815.6	6821.1	6837.6	6840.3	6801.9	6752.4	6733.2	6724.9	6691.9	6689.3	6694.7
5°	6898.0	6922.7	6898.0	6826.6	6656.2	6417.2	6236.0	6087.6	5953.0	5911.8	5887.1
7.5°	7062.9	7087.6	7013.4	6733.2	6304.7	5829.4	5400.8	5098.7	4826.7	4725.0	4683.8
10°	7299.1	7332.0	7098.5	6532.6	5774.4	5010.7	4285.5	3774.6	3376.2	3214.1	3145.4
12.5°	7595.8	7609.5	7145.3	6227.7	5084.9	3994.3	2966.9	2420.2	2065.8	1934.0	1892.8
15°	7922.6	7903.5	7150.7	5812.9	4145.4	2824.1	1936.7	1590.6	1447.7	1403.7	1403.7
17.5°	8266.1	8186.4	7040.8	5214.1	3115.2	1931.2	1436.7	1354.3	1329.6	1318.7	1315.9
20°	8604.0	8425.4	6840.3	4431.1	2236.1	1442.3	1304.9	1280.1	1266.4	1261.0	1255.4
22.5°	8911.7	8606.7	6497.0	3521.8	1623.5	1274.7	1233.5	1211.4	1186.7	1175.8	1173.0
25°	9211.1	8711.1	6013.5	2672.9	1299.4	1192.3	1159.3	1118.1	1085.1	1071.3	1065.9
27.5°	9502.3	8777.1	5409.0	1977.9	1159.3	1115.3	1054.9	997.2	972.5	967.0	961.4
30°	9812.7	8799.0	4722.3	1475.2	1074.1	1019.2	931.3	865.3	851.6	854.3	854.3
32.5°	10191.8	8832.0	4030.0	1208.7	1002.7	903.8	799.4	730.7	719.8	730.7	728.0
35°	10645.0	8897.9	3362.5	1112.5	939.5	785.7	673.0	615.3	604.3	612.6	609.9
37.5°	11260.4	9005.0	2738.9	1093.4	887.3	686.7	565.9	519.2	519.2	521.9	519.2
40°	12079.0	9290.7	2181.2	1079.6	859.9	612.6	478.0	458.8	467.0	472.5	472.5
42.5°	13076.2	9897.8	1804.8	1063.1	829.6	579.6	434.1	425.8	439.5	445.1	445.1
45°	14194.3	10667.1	1673.0	1035.7	802.2	601.6	414.8	403.8	420.4	423.0	425.8
47.5°	15350.9	11419.7	1656.5	1005.4	774.7	634.6	409.3	384.6	403.8	406.6	409.3
50°	16521.2	11911.5	1673.0	958.8	730.7	634.6	412.0	365.4	381.8	390.1	392.9
52.5°	17699.7	12136.7	1662.0	857.1	653.8	596.1	412.0	348.9	365.4	370.8	370.8
55°	18842.5	12092.7	1494.4	706.0	554.9	527.5	401.1	335.2	346.1	348.9	348.9
57.5°	19746.2	11480.2	1184.0	549.4	450.5	439.5	365.4	318.7	326.9	324.2	324.2
60°	20218.7	10134.1	846.1	423.0	354.3	346.1	321.4	296.7	302.2	288.4	285.7
62.5°	20224.3	8354.0	565.9	335.2	283.0	274.7	274.7	266.5	261.0	233.5	225.3
65°	19793.0	6378.8	376.4	266.5	228.0	214.2	230.7	228.0	208.8	170.4	164.8
67.5°	18815.0	4181.1	285.7	208.8	175.8	167.6	184.1	192.3	178.6	142.9	140.1
70°	16804.1	2434.0	236.3	162.1	131.8	123.6	148.3	164.8	148.3	115.4	109.9
72.5°	13958.0	1313.1	192.3	120.8	90.6	82.4	118.1	134.6	118.1	85.2	82.4
75°	9057.2	703.3	148.3	79.6	46.7	52.2	87.9	98.9	82.4	54.9	49.4
77.5°	3041.1	310.5	93.4	38.4	21.9	21.9	52.2	60.5	38.4	19.3	16.5
80°	678.6	129.1	38.4	16.5	8.2	8.2	11.0	11.0	5.5	0.0	0.0
82.5°	222.5	52.2	16.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.2	19.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.0	2.8	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)