

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: P971311

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

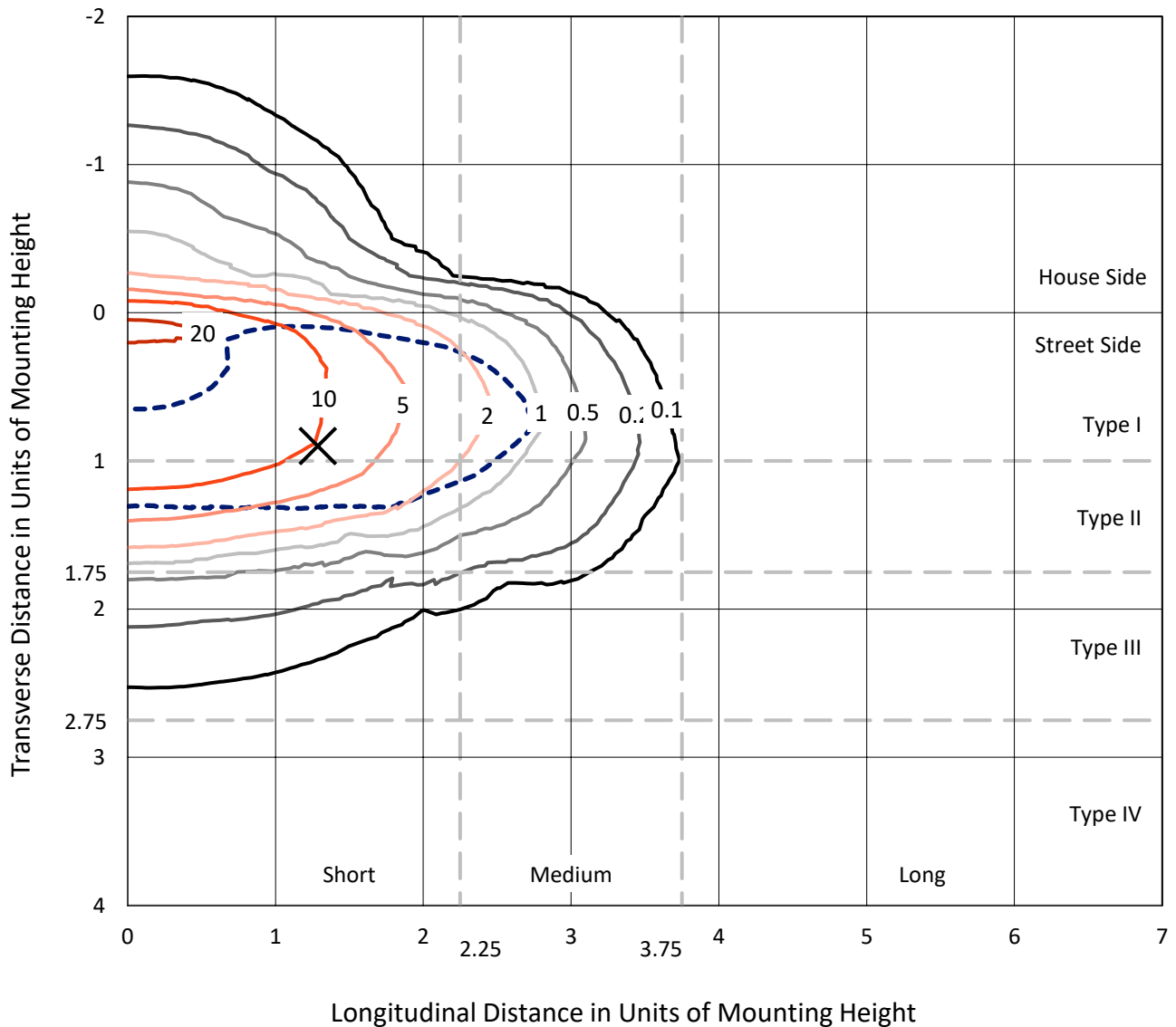
Lumens per Lamp: N/A  
Luminaire Lumens: 44549.6 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

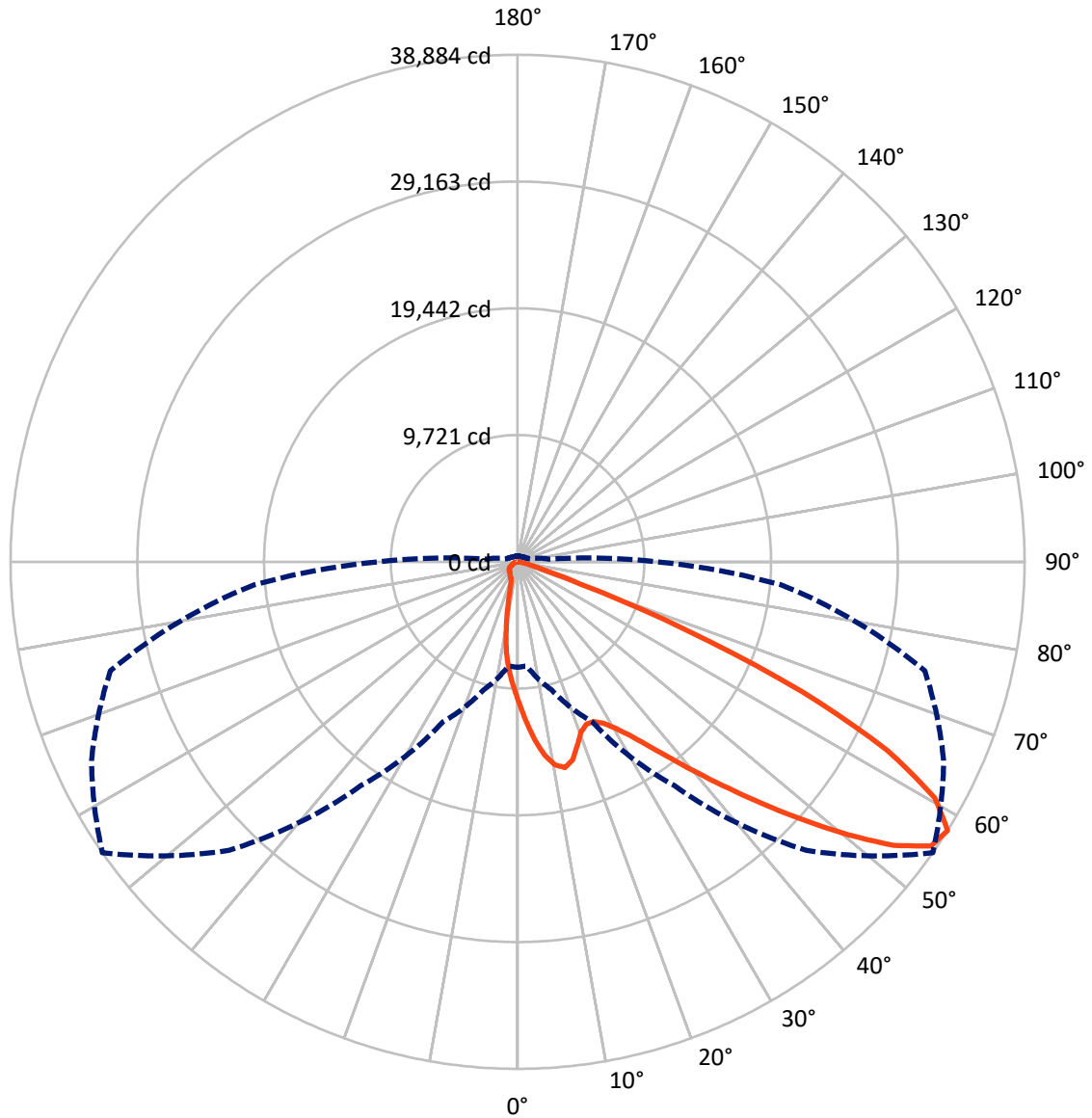
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3479.1	0.0	3479.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	41070.4	0.0	41070.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	44549.6	0.0	44549.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	998.9	2.2
10°-20°	2412.8	5.4
20°-30°	3860.4	8.7
30°-40°	6533.9	14.7
40°-50°	10727.3	24.1
50°-60°	11790.1	26.5
60°-70°	6762.8	15.2
70°-80°	1381.8	3.1
80°-90°	81.5	0.2
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°	44549.6	100.0
0°-180°	44549.6	100.0

**Coefficient of Utilization**

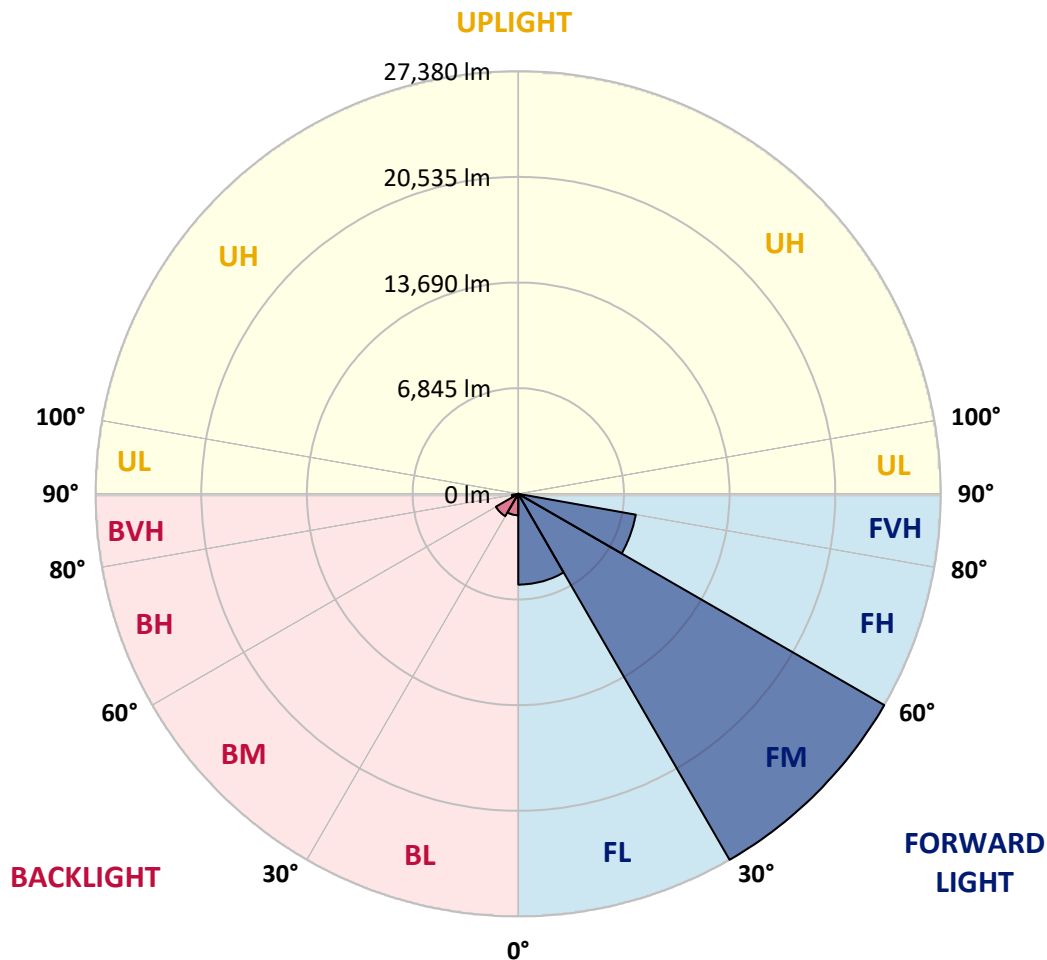


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5883.0	13.2			
FM (30°-60°)	27380.5	61.5			
FH (60°-80°)	7730.9	17.4			G4/12000
FVH (80°-90°)	76.0	0.2			G1/100
BL (0°-30°)	1389.0	3.1	B3/2500		
BM (30°-60°)	1670.9	3.8	B2/2500		
BH (60°-80°)	413.8	0.9	B1/500		G1/500
BVH (80°-90°)	5.5	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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3
2.5°	13320.3	13152.7	13128.0	13095.0	12776.4	12537.4	12191.2	11812.2	11386.4	10952.3	10760.0
5°	15388.8	15256.9	15232.2	15078.4	14715.8	14309.2	13693.9	12916.4	12122.6	11188.6	10787.5
7.5°	15789.8	15765.1	15877.8	15872.2	15822.8	15501.4	14982.2	14056.5	12864.3	11479.8	10859.0
10°	14001.6	14064.7	14399.9	14693.8	15487.6	15949.2	15836.6	15072.9	13628.0	11812.2	10938.6
12.5°	12372.6	12298.4	12537.4	12869.8	13792.8	15166.3	16190.9	15921.7	14501.5	12188.5	11056.8
15°	11350.6	11320.5	11455.1	11608.9	12312.1	13696.7	15778.8	16611.3	15342.1	12633.5	11235.3
17.5°	11023.8	10999.1	11040.3	11078.7	11534.7	12606.1	14798.2	17034.3	16146.9	13141.7	11433.1
20°	11290.3	11257.3	11251.8	11221.6	11411.1	12141.8	13910.9	17064.5	16869.4	13603.3	11603.4
22.5°	12067.6	12029.2	11894.6	11773.8	11790.2	12205.0	13515.3	16762.3	17413.3	14034.5	11710.5
25°	13476.9	13413.7	13133.5	12726.9	12468.7	12644.5	13575.8	16364.0	17932.6	14372.4	11658.3
27.5°	15240.4	15158.0	14798.2	14193.9	13603.3	13389.0	14012.6	16089.3	18363.8	14630.6	11545.7
30°	16968.4	16861.2	16506.8	16037.0	15174.5	14498.7	14800.9	16210.2	18877.5	14899.8	11397.4
32.5°	18833.6	18731.9	18262.2	17679.8	16965.6	16056.3	15880.5	16800.8	19506.6	15276.2	11293.0
35°	21193.2	21033.9	20366.4	19572.5	18814.3	17894.0	17342.0	17819.9	20344.4	15850.3	11350.6
37.5°	23879.8	23665.6	22945.9	21849.8	20860.9	19830.8	19122.0	19220.9	21572.4	16619.5	11529.2
40°	26412.6	26217.6	25552.7	24519.8	23278.3	22028.4	21273.0	21053.2	23267.3	17556.2	11842.4
42.5°	27931.7	27755.9	27475.6	27038.9	25992.3	24717.7	23764.4	23289.2	25272.6	18676.9	12224.3
45°	28016.8	27863.0	28239.4	28747.6	28541.5	27692.7	26530.7	25660.0	27286.1	19729.1	12619.8
47.5°	26654.3	26550.0	27692.7	29467.3	30351.8	30708.9	29637.6	27832.7	28948.0	20484.5	12781.9
50°	22940.3	22901.9	25253.3	28511.3	31041.3	33351.6	32914.8	29854.6	30236.5	20874.6	12628.0
52.5°	19891.1	19751.0	21121.9	25451.2	30038.6	34741.6	36117.8	31837.9	31137.4	20948.7	12268.2
55°	15086.7	14963.1	16682.7	20330.7	26805.4	34247.1	38461.0	33884.4	31783.0	20759.2	11622.7
57.5°	8092.7	8015.8	10188.7	13531.8	20954.3	31280.3	38884.1	36049.1	32327.0	20256.6	10718.8
60°	3150.8	3137.1	3950.2	6565.3	12735.2	25448.4	36749.6	37348.4	32667.6	19638.5	9963.4
62.5°	1906.4	1947.6	2079.5	2947.6	5625.9	15809.1	31829.7	35870.6	32895.5	19072.6	9339.9
65°	1576.8	1579.5	1596.0	2024.6	2694.8	6614.8	23962.2	31008.3	32332.4	18064.4	8455.3
67.5°	1351.6	1376.3	1439.4	1607.0	1901.0	2900.9	13795.6	24020.0	28906.8	15718.5	7076.3
70°	1065.8	1098.8	1178.4	1321.3	1466.9	1815.8	5098.5	15982.1	22083.3	11847.9	5351.2
72.5°	898.3	895.5	936.7	1074.1	1164.7	1277.4	1961.3	8955.3	12834.0	5656.2	2648.1
75°	694.9	722.4	774.7	898.3	953.2	925.8	1063.1	3271.7	4598.6	1714.1	901.0
77.5°	543.9	565.9	612.5	733.5	788.4	656.5	612.5	1170.2	1477.8	615.3	406.5
80°	244.5	263.7	417.6	541.2	642.8	453.3	332.4	598.8	656.5	280.2	206.0
82.5°	44.0	74.2	244.5	285.7	329.6	294.0	173.0	310.4	321.4	112.6	71.4
85°	2.8	5.5	85.2	104.3	131.8	96.1	52.2	123.6	107.1	38.4	27.5
87.5°	0.0	0.0	0.0	2.8	2.8	13.7	16.5	21.9	16.5	13.7	11.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3	10735.3
2.5°	10562.3	10172.2	9793.2	9482.7	9301.4	8993.8	8790.5	8757.5	8672.3	8746.5
5°	10359.0	9661.2	8955.3	8323.5	7804.2	7134.0	6634.0	6422.5	6238.5	6301.7
7.5°	10262.8	9161.3	8062.5	6982.9	5873.1	4801.8	4005.2	3672.8	3420.0	3455.8
10°	10133.8	8642.1	6919.8	5271.6	3785.4	2727.8	2178.4	1975.1	1862.5	1865.2
12.5°	10034.9	8021.3	5592.9	3573.9	2304.7	1741.6	1571.3	1521.8	1488.9	1491.6
15°	9985.4	7290.6	4282.6	2381.7	1648.2	1475.2	1434.0	1411.9	1390.0	1387.2
17.5°	9903.0	6477.5	3134.3	1738.9	1442.2	1381.7	1346.0	1321.3	1293.9	1288.3
20°	9779.4	5554.5	2291.0	1469.6	1351.6	1304.8	1255.4	1222.4	1189.4	1184.0
22.5°	9551.4	4579.3	1760.8	1359.8	1285.6	1233.4	1173.0	1134.5	1101.6	1096.0
25°	9128.3	3664.5	1483.4	1291.1	1227.9	1164.7	1098.8	1046.6	1016.4	1010.9
27.5°	8592.7	2878.9	1346.0	1227.9	1153.7	1096.0	1021.9	972.4	944.9	939.5
30°	7960.9	2216.9	1266.4	1156.5	1065.8	1016.4	950.5	909.3	892.8	892.8
32.5°	7279.6	1771.8	1233.4	1085.1	988.9	934.0	881.8	865.3	859.8	857.1
35°	6639.5	1538.3	1216.9	1027.4	920.2	868.1	846.0	848.8	859.8	859.8
37.5°	6070.9	1464.1	1208.7	986.2	859.8	813.1	826.9	851.6	840.6	840.6
40°	5557.2	1472.4	1203.1	955.9	810.4	782.9	810.4	791.1	763.6	761.0
42.5°	5164.4	1541.1	1192.2	931.2	780.1	761.0	749.9	719.8	717.0	722.4
45°	4878.7	1601.6	1189.4	920.2	747.2	711.5	697.7	667.5	722.4	736.2
47.5°	4540.9	1601.6	1189.4	881.8	692.3	678.6	656.5	623.6	678.6	692.3
50°	4104.0	1499.9	1142.8	837.8	648.3	640.0	601.6	560.4	549.4	557.6
52.5°	3551.9	1315.8	1024.6	777.4	604.3	587.8	541.2	511.0	502.7	502.7
55°	2922.8	1101.6	865.3	689.5	557.6	527.5	494.5	480.7	472.5	467.0
57.5°	2376.2	903.7	694.9	612.5	513.7	475.2	464.2	447.7	434.0	425.8
60°	1950.4	711.5	574.1	543.9	469.8	434.0	431.3	409.3	373.6	368.1
62.5°	1505.4	521.9	483.5	472.5	425.8	395.5	390.1	346.1	291.2	280.2
65°	1063.1	406.5	390.1	414.8	379.0	351.6	337.8	271.9	214.2	206.0
67.5°	747.2	340.6	307.7	362.6	329.6	294.0	285.7	230.7	178.6	173.0
70°	532.9	277.5	252.8	310.4	263.7	258.2	241.7	192.3	145.5	140.1
72.5°	376.4	211.6	195.1	269.2	181.3	222.5	197.8	148.3	109.9	104.3
75°	277.5	151.1	137.4	156.6	131.8	167.6	140.1	98.9	68.7	65.9
77.5°	203.3	96.1	82.4	76.9	76.9	104.3	76.9	41.2	30.2	27.5
80°	142.9	44.0	38.4	33.0	30.2	24.7	11.0	5.5	2.8	2.8
82.5°	85.2	19.3	19.3	13.7	8.2	0.0	0.0	0.0	0.0	0.0
85°	19.3	8.2	8.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	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

(END OF REPORT)