

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: P961570

Luminaire Tested: **NAV-SB2A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6255.6 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

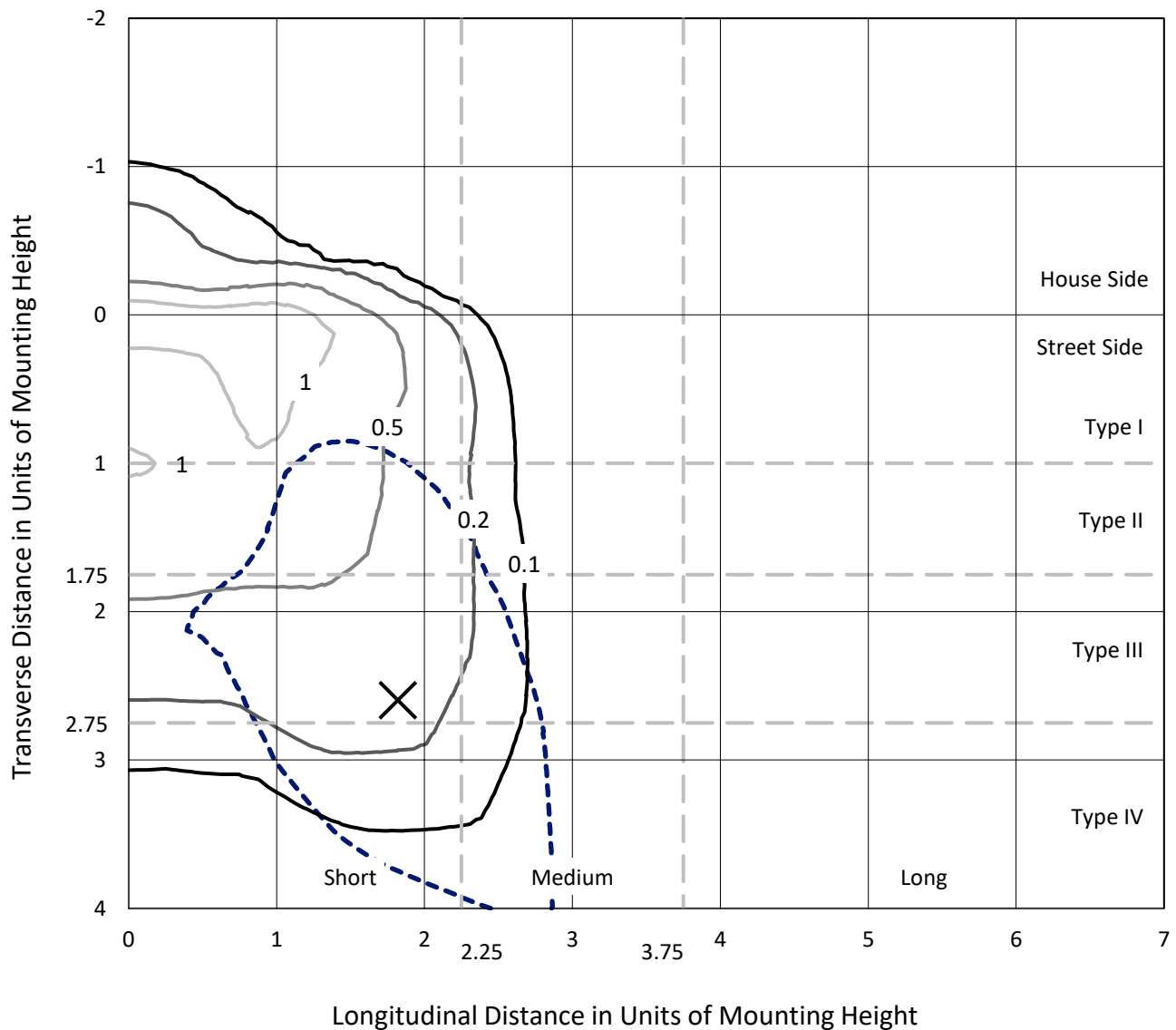
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

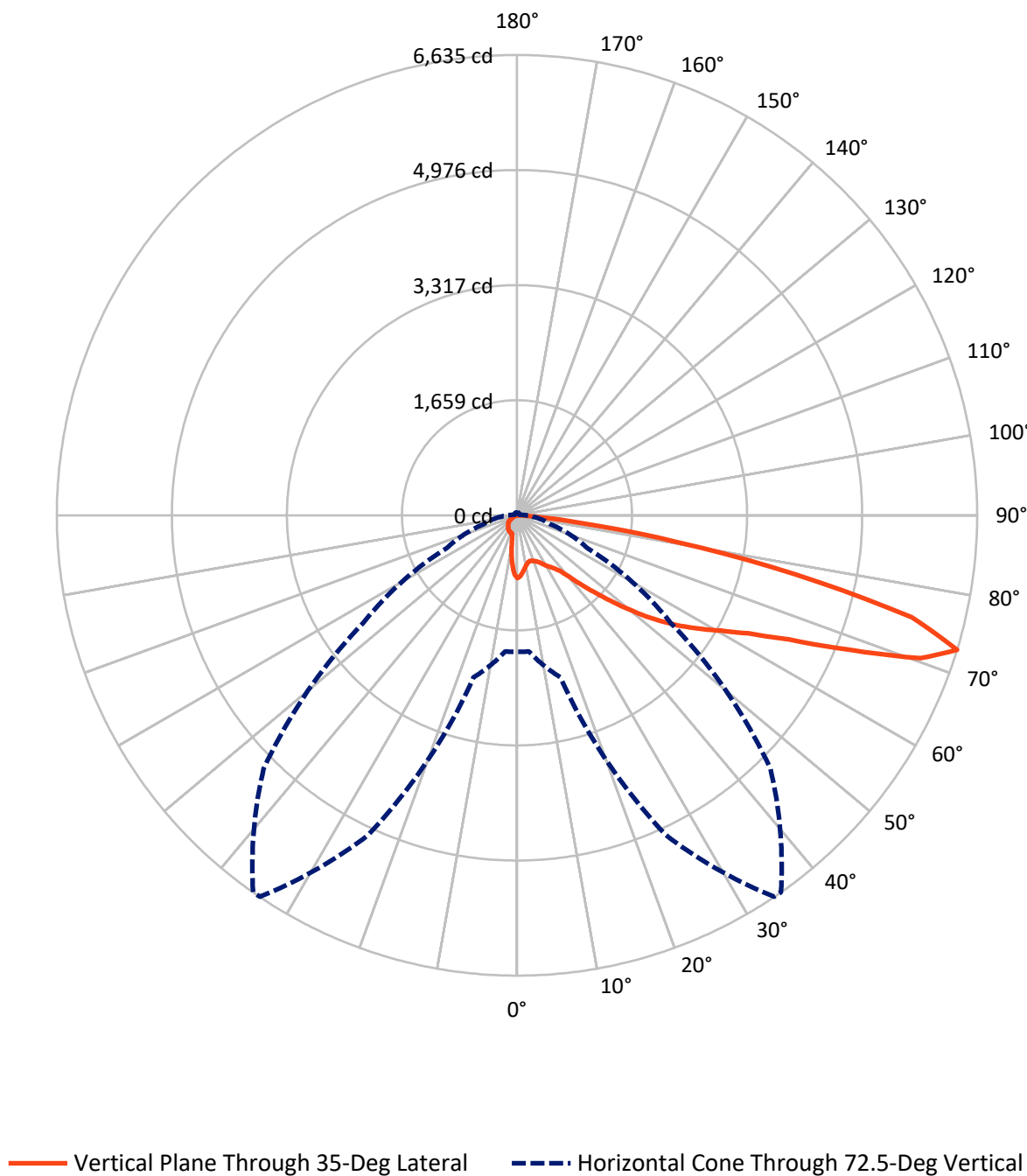
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	704.0	0.0	704.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5551.5	0.0	5551.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	6255.6	0.0	6255.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.2
10°-20°	174.3	2.8
20°-30°	283.1	4.5
30°-40°	472.4	7.6
40°-50°	893.8	14.3
50°-60°	1420.2	22.7
60°-70°	1756.9	28.1
70°-80°	1092.1	17.5
80°-90°	88.3	1.4
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°	6255.6	100.0
0°-180°	6255.6	100.0

Coefficient of Utilization



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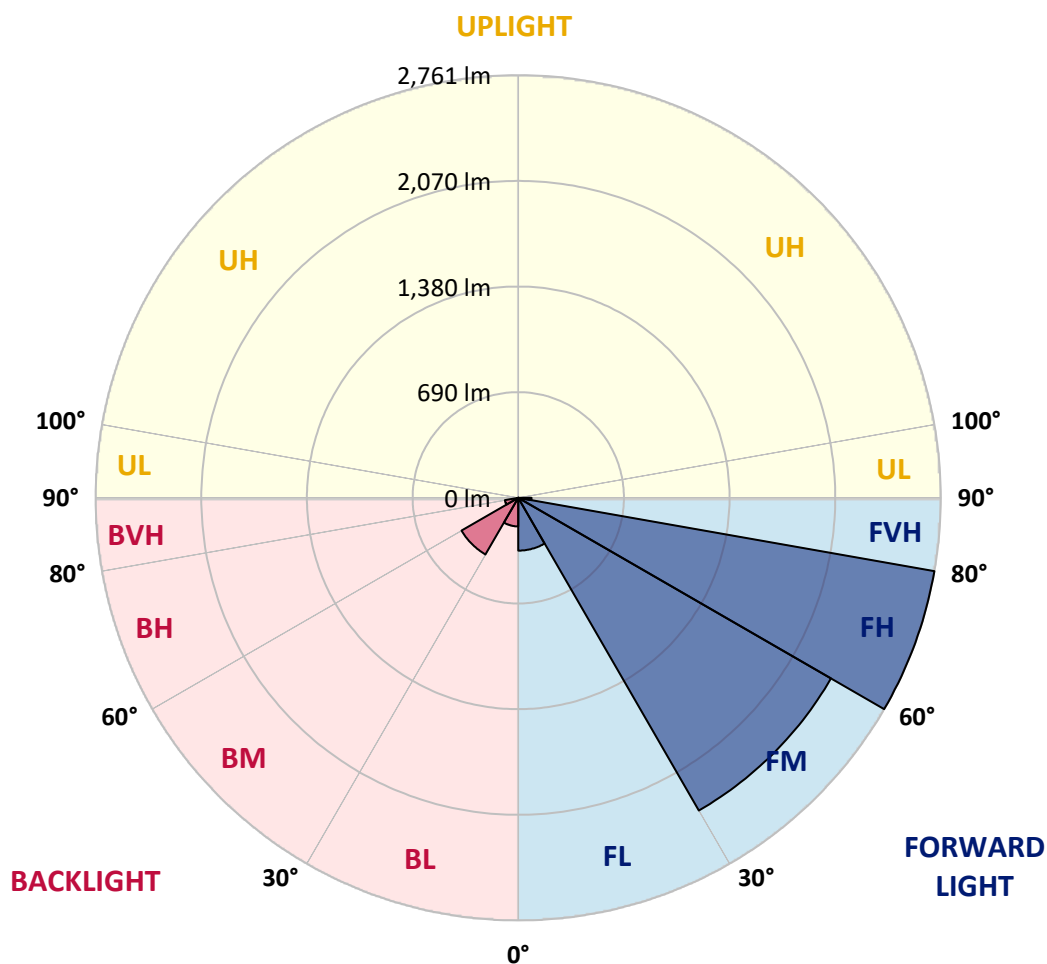
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.8	5.5			
FM	(30°-60°)	2359.0	37.7			
FH	(60°-80°)	2760.7	44.1			G2/5000
FVH	(80°-90°)	87.1	1.4			G1/100
BL	(0°-30°)	187.1	3.0	B1/500		
BM	(30°-60°)	427.4	6.8	B1/1000		
BH	(60°-80°)	88.3	1.4	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6
2.5°	866.3	873.6	875.0	877.3	877.3	880.1	884.7	891.0	901.6	907.1	910.8
5°	798.5	804.0	810.9	816.3	826.9	828.3	846.1	863.6	887.9	906.2	919.0
7.5°	730.2	736.6	745.8	759.0	772.8	776.9	804.0	833.3	871.8	906.2	927.7
10°	682.0	682.5	690.7	704.1	726.0	731.1	764.1	805.8	853.9	900.7	935.9
12.5°	655.0	658.3	661.8	672.0	693.0	696.3	731.5	780.6	836.1	897.5	945.6
15°	655.0	657.3	659.6	664.6	681.6	684.3	715.6	764.5	826.9	898.8	961.1
17.5°	661.8	665.5	663.7	669.6	687.6	689.4	716.9	759.9	826.5	907.5	985.0
20°	678.3	681.1	677.4	681.1	699.0	702.6	731.1	768.6	834.2	922.7	1014.9
22.5°	704.5	705.9	697.2	699.9	718.2	722.8	755.8	793.5	853.0	947.0	1054.7
25°	737.5	740.3	726.9	730.2	747.6	753.1	791.1	830.6	882.8	980.4	1105.6
27.5°	775.5	776.9	765.5	765.0	787.5	795.3	833.7	876.4	922.7	1022.6	1169.7
30°	819.1	823.2	812.2	810.4	838.8	845.2	883.2	932.7	981.3	1085.9	1261.0
32.5°	853.5	856.7	850.2	854.8	883.8	888.8	943.3	1012.5	1073.5	1175.7	1385.2
35°	903.0	904.8	890.1	898.4	931.4	944.2	1025.3	1124.3	1189.4	1288.4	1547.4
37.5°	1082.2	1082.2	1019.9	979.1	1010.6	1022.1	1137.6	1265.1	1332.5	1439.7	1751.8
40°	1330.1	1326.0	1234.8	1151.4	1147.3	1169.7	1297.6	1442.5	1517.2	1621.2	1981.9
42.5°	1594.7	1588.2	1464.0	1381.5	1367.8	1375.6	1482.4	1661.1	1737.2	1842.6	2229.5
45°	1829.3	1827.5	1713.8	1602.9	1578.2	1602.9	1712.9	1916.9	1971.4	2082.4	2476.5
47.5°	2026.0	2026.0	1943.0	1870.6	1857.7	1872.4	2025.1	2200.6	2195.5	2337.6	2717.2
50°	2252.4	2250.6	2171.8	2140.5	2153.8	2174.4	2384.4	2499.5	2427.5	2588.3	2932.1
52.5°	2411.0	2422.0	2394.9	2389.9	2457.7	2493.5	2749.3	2791.9	2635.2	2826.2	3093.0
55°	2536.6	2549.4	2580.5	2615.9	2746.5	2793.2	3102.7	3069.2	2808.8	3032.6	3185.6
57.5°	2714.4	2696.1	2744.2	2813.9	3025.2	3081.6	3445.0	3330.9	2948.6	3199.8	3195.7
60°	2930.3	2933.0	2941.3	3029.3	3303.5	3375.8	3782.5	3578.5	3038.5	3302.6	3083.9
62.5°	3189.8	3193.9	3210.8	3346.0	3677.0	3745.2	4141.8	3781.0	3079.7	3273.6	2795.1
65°	3171.9	3189.3	3378.6	3841.1	4244.9	4312.3	4561.1	3923.1	3017.4	3009.6	2275.8
67.5°	2889.5	2918.0	3234.7	4432.4	5101.1	5176.2	5068.1	3951.1	2748.3	2340.4	1484.6
70°	2519.1	2529.3	2910.2	4964.1	6092.6	6168.7	5521.9	3643.6	2085.6	1305.4	665.1
72.5°	1967.3	1969.5	2416.5	5087.4	6630.7	6634.8	5165.8	2704.8	1121.7	501.4	231.0
75°	1405.4	1391.5	1618.5	4125.7	5833.6	5880.3	3872.8	1268.7	428.6	237.0	115.0
77.5°	753.6	768.6	915.8	2446.8	4029.9	4109.6	2113.0	365.8	218.2	161.3	76.1
80°	232.9	245.7	375.4	1120.2	2282.7	2330.7	783.3	162.8	152.2	115.0	49.9
82.5°	73.3	76.1	175.1	470.8	947.4	969.4	226.9	92.1	104.0	76.1	29.3
85°	21.1	21.5	77.9	175.6	234.2	238.8	63.8	35.8	59.6	47.3	15.2
87.5°	2.3	7.4	29.3	29.3	20.6	20.2	6.9	7.8	16.9	5.9	2.8
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°	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6	906.6
2.5°	908.5	909.0	903.0	892.9	881.9	872.7	861.3	852.1	845.7	843.9	847.1
5°	914.9	911.6	894.7	864.0	827.4	795.7	760.4	732.5	714.1	706.3	709.1
7.5°	924.6	915.3	878.2	817.7	747.6	685.2	622.0	573.0	541.8	526.2	528.5
10°	932.7	914.4	850.7	750.8	643.5	549.1	463.8	404.8	371.8	356.2	356.6
12.5°	940.5	914.0	815.0	671.5	526.2	410.7	331.4	302.1	292.9	289.7	288.7
15°	955.2	915.3	770.1	580.8	409.3	310.3	281.5	281.0	282.8	281.9	281.5
17.5°	975.4	916.8	719.1	484.5	315.8	273.7	272.2	276.4	279.1	277.8	277.3
20°	1001.5	922.2	665.1	389.2	271.3	264.4	267.7	271.3	273.7	271.3	270.9
22.5°	1038.2	931.8	606.0	312.6	257.2	259.0	261.7	265.9	268.1	265.0	264.4
25°	1083.1	947.0	547.8	271.8	250.3	252.6	256.7	261.3	264.0	260.8	260.3
27.5°	1141.3	971.3	494.2	262.6	243.4	244.8	250.7	257.6	261.3	257.2	257.2
30°	1225.7	1011.2	447.8	266.8	239.2	236.1	244.3	253.9	258.1	254.4	253.9
32.5°	1337.5	1067.5	419.4	273.2	237.4	226.0	233.8	246.1	253.0	250.7	250.7
35°	1484.2	1153.2	408.4	280.5	236.1	215.5	220.9	234.2	246.1	248.5	248.5
37.5°	1662.0	1272.4	411.6	283.7	232.0	206.7	209.5	220.9	236.5	243.8	245.7
40°	1864.2	1411.3	430.0	280.5	227.3	199.4	199.9	208.6	222.3	233.3	237.0
42.5°	2072.8	1573.6	463.8	268.5	223.2	193.0	191.6	197.5	206.7	214.5	217.7
45°	2271.2	1740.4	497.3	252.2	218.2	186.5	183.4	185.6	187.5	190.6	192.5
47.5°	2444.4	1857.7	487.7	237.0	211.4	179.2	173.7	172.8	167.3	166.9	166.4
50°	2564.0	1883.4	433.2	221.8	201.2	171.0	162.3	156.7	147.1	142.6	143.0
52.5°	2602.2	1782.2	353.8	206.7	184.7	160.0	147.6	138.9	127.0	122.8	122.4
55°	2551.7	1583.6	282.8	188.4	161.8	145.3	131.5	120.1	110.5	105.5	105.5
57.5°	2428.4	1331.1	223.7	166.9	137.6	128.8	115.0	103.6	95.3	90.3	89.4
60°	2223.9	1057.0	176.9	141.1	117.4	110.9	96.8	89.4	82.0	76.1	74.7
62.5°	1913.7	754.5	138.9	111.8	98.1	90.7	82.5	77.0	68.3	60.1	58.6
65°	1493.3	461.6	107.2	82.0	78.8	75.1	70.1	65.1	54.5	46.3	44.9
67.5°	942.0	218.6	76.6	61.9	62.3	60.5	58.2	54.1	46.3	38.9	38.0
70°	414.8	105.9	50.4	47.3	46.3	46.3	48.2	46.7	39.5	32.6	31.2
72.5°	141.1	56.9	37.6	35.8	33.4	33.0	40.4	38.9	31.7	25.2	23.9
75°	73.8	38.0	27.5	25.6	20.2	24.3	32.1	30.2	22.4	16.5	15.2
77.5°	48.2	27.1	18.8	16.5	11.5	16.1	23.9	21.1	13.3	8.2	7.4
80°	30.2	17.8	11.0	7.8	5.5	8.7	12.8	9.1	5.0	1.8	1.3
82.5°	16.1	9.1	4.1	2.8	2.3	2.8	3.2	2.3	0.9	0.0	0.0
85°	6.5	3.2	1.3	0.9	0.4	0.0	0.9	0.4	0.0	0.0	0.0
87.5°	2.3	0.4	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)