

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: P961563

Luminaire Tested: **NAV-SB2A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

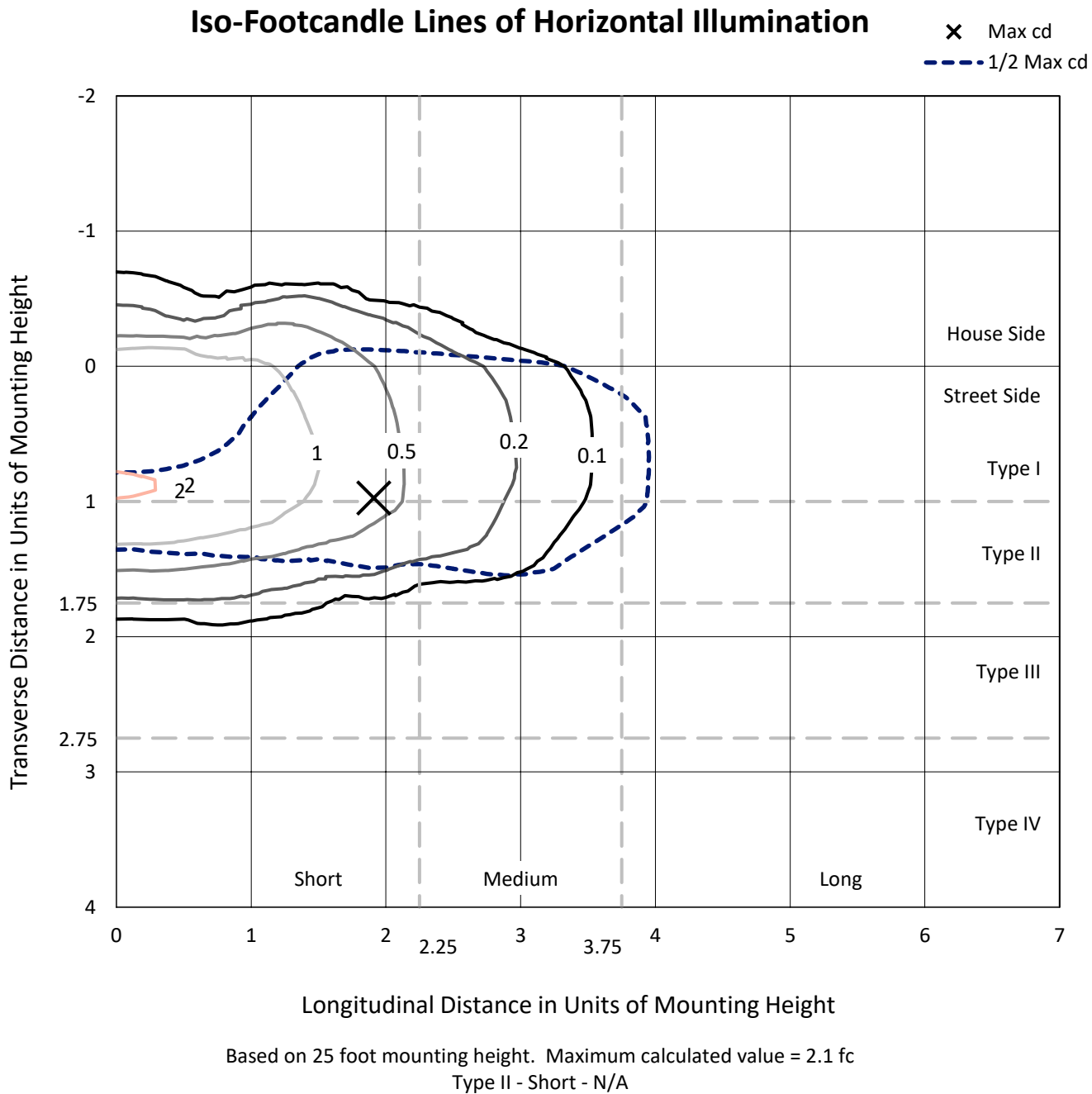
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6314 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

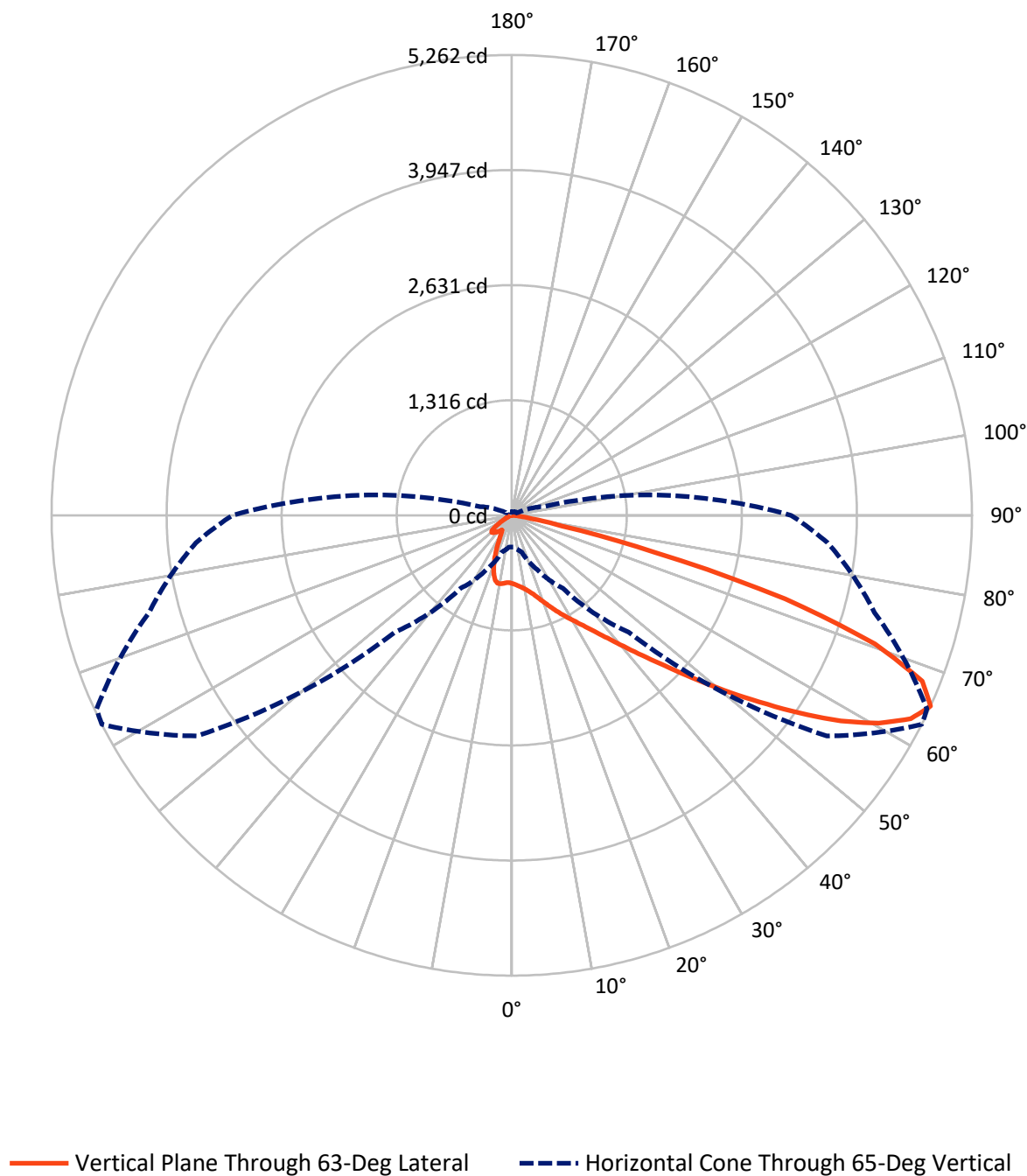


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	928.1	0.0	928.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5385.9	0.0	5385.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	6314.0	0.0	6314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	1.2
10°-20°	203.7	3.2
20°-30°	354.7	5.6
30°-40°	639.4	10.1
40°-50°	1268.0	20.1
50°-60°	1727.3	27.4
60°-70°	1378.7	21.8
70°-80°	623.9	9.9
80°-90°	44.8	0.7
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°	6314.0	100.0
0°-180°	6314.0	100.0

Coefficient of Utilization



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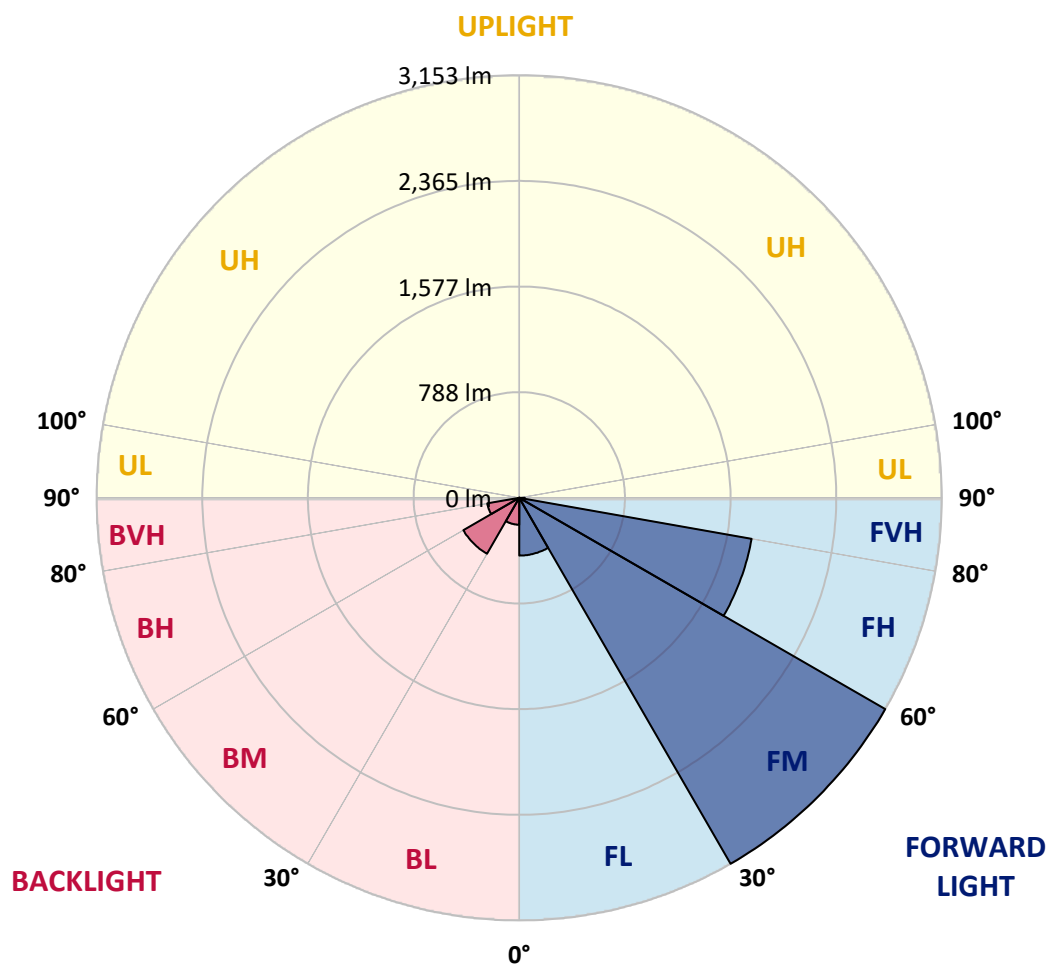
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.0	6.8			
FM	(30°-60°)	3153.1	49.9			
FH	(60°-80°)	1760.3	27.9			G1/1800
FVH	(80°-90°)	41.5	0.7			G1/100
BL	(0°-30°)	200.9	3.2	B1/500		
BM	(30°-60°)	481.6	7.6	B1/1000		
BH	(60°-80°)	242.3	3.8	B1/500		G1/500
BVH	(80°-90°)	3.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3
2.5°	797.6	795.3	798.4	797.0	796.2	794.5	793.6	792.7	791.0	789.7	784.4
5°	799.7	798.4	801.4	804.0	806.7	809.2	810.6	812.3	810.6	807.1	801.9
7.5°	781.5	780.5	787.1	794.9	806.7	816.6	827.5	833.5	834.0	832.7	827.1
10°	780.1	778.0	784.4	794.1	809.2	827.1	846.1	859.2	860.9	866.5	860.5
12.5°	800.5	798.4	807.5	817.9	833.5	852.3	875.7	893.9	896.6	904.4	900.1
15°	834.9	831.8	842.2	855.7	875.7	897.0	921.8	938.3	940.4	950.0	942.2
17.5°	874.8	871.8	884.0	898.3	920.0	949.1	977.7	996.0	998.7	1004.7	990.4
20°	926.1	922.2	931.7	944.7	967.8	1002.6	1036.9	1062.9	1062.5	1062.5	1039.0
22.5°	985.6	979.5	987.8	998.1	1019.9	1062.0	1107.6	1138.5	1138.5	1126.4	1087.6
25°	1049.5	1043.3	1052.5	1062.0	1081.2	1128.9	1182.3	1220.6	1222.3	1201.5	1139.8
27.5°	1129.3	1121.6	1128.5	1139.8	1151.1	1199.8	1263.2	1307.5	1308.3	1276.2	1189.3
30°	1283.1	1261.0	1239.2	1227.1	1232.4	1280.5	1348.3	1397.4	1401.7	1357.4	1243.2
32.5°	1564.7	1560.3	1483.8	1384.0	1331.8	1367.5	1443.4	1502.5	1505.1	1448.2	1313.1
35°	2002.0	1996.8	1873.9	1683.7	1513.8	1483.8	1558.9	1628.9	1627.2	1562.9	1403.9
37.5°	2524.2	2519.3	2357.4	2102.8	1827.9	1659.8	1708.0	1781.3	1792.2	1708.0	1521.2
40°	2970.2	2952.4	2849.9	2604.5	2244.9	1951.6	1919.9	1968.6	1979.9	1880.0	1670.1
42.5°	3308.2	3293.0	3240.8	3087.5	2749.6	2383.4	2169.7	2188.4	2201.0	2081.1	1841.3
45°	3483.3	3479.8	3500.6	3486.3	3263.9	2913.4	2526.7	2449.0	2453.7	2303.9	2035.4
47.5°	3508.0	3506.2	3601.4	3736.0	3706.1	3511.0	2985.0	2774.0	2756.9	2555.4	2246.6
50°	3362.1	3358.6	3541.1	3793.4	4001.5	4013.2	3505.4	3140.1	3102.8	2815.6	2466.8
52.5°	2895.9	2895.1	3194.8	3614.9	4105.2	4452.8	4019.7	3542.3	3479.8	3091.0	2699.6
55°	2228.4	2244.4	2588.0	3084.5	3915.9	4664.3	4481.4	3988.9	3892.8	3368.2	2914.2
57.5°	1578.5	1602.0	1941.7	2383.8	3328.6	4539.2	4793.7	4436.3	4332.9	3644.4	3131.9
60°	847.9	868.8	1208.9	1736.7	2476.4	4072.7	4958.3	4824.6	4726.9	3906.8	3328.2
62.5°	505.2	512.1	652.8	1121.1	1675.0	3111.4	4888.4	5120.4	5040.0	4127.0	3498.8
65°	362.7	364.0	434.8	684.6	1016.9	1890.4	4398.1	5262.0	5237.2	4292.9	3625.3
67.5°	305.3	304.5	334.0	454.8	692.8	946.9	3370.7	5061.8	5166.9	4398.1	3697.0
70°	261.9	263.2	298.0	333.1	520.8	536.0	1675.8	4407.2	4631.3	4425.8	3692.6
72.5°	195.1	199.4	231.5	303.6	393.1	368.8	578.6	3267.8	3673.1	4170.0	3501.1
75°	137.7	139.9	162.9	255.4	293.3	268.4	295.4	1689.3	2208.8	3197.0	2865.6
77.5°	106.0	109.9	123.4	178.6	288.8	188.5	180.7	584.7	898.3	1931.2	1964.7
80°	57.3	64.3	89.1	129.0	202.8	133.4	89.5	232.8	304.5	903.0	757.6
82.5°	29.5	33.0	62.1	93.0	115.5	116.4	44.3	96.9	125.6	278.9	103.8
85°	11.7	14.3	41.7	51.2	59.6	57.3	20.0	39.1	45.2	77.3	31.7
87.5°	2.6	4.3	15.2	11.7	11.3	12.2	4.8	9.1	8.7	9.1	5.6
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°	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3	779.3
2.5°	784.0	782.3	777.6	772.3	766.2	762.8	760.6	760.1	757.1	754.9	757.1
5°	797.0	795.3	786.2	775.3	763.6	754.5	745.8	738.0	726.7	724.6	723.6
7.5°	823.2	818.4	803.6	788.8	766.7	740.2	708.1	671.1	638.1	628.1	623.3
10°	855.3	848.8	830.0	804.0	754.9	682.9	605.1	533.0	475.6	459.6	453.5
12.5°	891.7	886.1	861.4	813.1	705.8	575.1	456.1	366.6	311.0	297.1	293.3
15°	935.2	926.9	892.7	799.3	618.1	437.0	313.1	260.1	240.3	237.6	235.0
17.5°	981.2	967.8	920.4	749.3	500.0	310.6	241.9	226.7	218.0	215.5	214.1
20°	1023.4	1006.0	937.0	673.7	373.6	241.9	216.8	206.7	199.0	195.9	194.1
22.5°	1065.5	1040.8	937.0	570.7	280.1	214.5	199.0	189.8	180.7	176.8	174.7
25°	1109.4	1076.4	920.4	456.1	225.4	196.8	182.0	172.0	164.2	159.4	157.6
27.5°	1152.0	1106.4	882.6	347.5	200.7	181.1	166.4	156.8	149.4	146.0	146.0
30°	1192.4	1135.9	829.6	263.6	184.6	165.9	152.0	143.8	136.4	132.9	133.4
32.5°	1247.1	1173.2	773.2	216.3	170.7	151.6	139.0	131.2	124.6	122.1	122.1
35°	1323.1	1228.4	724.6	212.4	159.0	139.9	127.3	119.9	113.4	111.2	111.2
37.5°	1430.8	1317.4	698.9	238.5	149.4	129.5	117.7	109.9	103.8	102.1	101.7
40°	1563.7	1438.2	712.8	264.6	142.9	120.3	109.1	101.2	96.0	93.8	93.4
42.5°	1721.4	1587.2	789.7	284.5	138.6	112.5	100.8	92.0	88.7	87.7	87.7
45°	1902.6	1751.0	907.4	305.8	131.6	105.2	92.6	86.0	83.4	82.9	82.5
47.5°	2108.4	1930.8	1043.8	332.3	124.6	98.2	86.0	81.7	79.5	78.6	78.6
50°	2312.6	2111.9	1184.1	347.1	119.0	91.6	80.8	77.3	75.5	75.1	75.1
52.5°	2526.3	2298.3	1297.4	333.1	114.3	86.4	76.5	73.8	72.1	71.6	71.6
55°	2730.1	2449.0	1317.0	282.8	104.7	81.2	71.6	70.4	68.2	68.2	67.8
57.5°	2905.6	2524.6	1178.9	207.7	95.1	73.4	66.9	65.6	63.9	63.4	62.9
60°	3066.7	2502.8	910.0	139.9	84.7	65.6	60.8	60.0	58.2	56.1	55.6
62.5°	3157.5	2407.3	622.5	91.2	74.3	57.3	53.8	53.4	49.5	45.2	44.3
65°	3191.7	2210.9	388.4	66.4	62.1	49.1	46.4	45.6	40.0	35.2	34.7
67.5°	3161.8	1887.7	195.9	52.6	49.1	40.8	38.2	38.2	34.3	29.9	29.5
70°	3041.9	1415.2	82.5	42.1	37.8	31.3	31.3	33.0	29.1	24.3	23.9
72.5°	2781.7	952.1	43.9	32.2	28.2	22.1	25.6	27.0	23.1	18.2	18.2
75°	2211.4	580.8	30.4	23.9	17.8	15.7	19.6	20.4	15.7	12.2	11.7
77.5°	1512.5	333.6	20.4	15.2	11.3	9.1	13.4	12.6	8.3	5.6	6.0
80°	664.2	139.0	11.7	7.0	4.3	3.5	4.8	3.5	2.6	1.7	1.7
82.5°	77.8	32.6	4.3	2.6	1.7	0.8	0.4	0.0	0.0	0.0	0.0
85°	16.1	3.9	2.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.8	0.4	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)